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IONOSPHERIC DATA

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PREPARED BY CENTRAL RADIO PROPAGATION LABORATORY
National Bureau of Standards
Washington, D.C.

On July 1, 1946, the Interservice Radio Propagation Laboratory ceased to exist as such. At that time the duties and functions of the IRPL were absorbed by the Central Radio Propagation Laboratory, established at the National Bureau of Standards on May 1, 1946, to act as an organization for centralizing and coordinating basic research and prediction service in the field of radio wave propagation.

The IRPL-F series, "Ionospheric Data", commencing with the July 1946 issue, is known as the CRPL-F series.

IONOSPHERIC DATA

CONTENTS

TERMINOLOGY AND SCALING PRACTICES	Page 5
MONTHLY AVERAGE AND MEDIAN VALUES OF IONOSPHERIC DATA	Page 7

Provisional dataJuly 1946

Clyde, Baffin I. (Median values)	Table 1
Fairbanks, Alaska (Median values)	Table 2
Churchill, Canada (Median values)	Table 3
Prince Rupert, Canada (Median values)	Table 4
Adak, Alaska (Median values)	Table 5
St. John's, Newfoundland (Median values)	Table 6
Ottawa, Canada (Median values)	Table 7
Boston, Massachusetts (Median values)	Table 8
San Francisco, California (Median values)	Table 9
Baton Rouge, Louisiana (Median values)	Table 10
Trinidad, Brit. West Indies (Median values)	Table 11
Brisbane, Australia (Median values)	Table 12
Watheroo, W. Australia (Median values)	Table 13
Canberra, Australia (Median values)	Table 14

June 1946

Clyde, Baffin I. (Median values)	Table 15
Churchill, Canada (Median values)	Table 16
Okinawa I. (Median values)	Table 17
Guam I. (Average values)	Table 18
Leyte, Philippine Is. (Median values)	Table 19
Brisbane, Australia (Median values)	Table 20
Watheroo, W. Australia (Median values)	Table 21

May 1946

Clyde, Baffin I. (Median values)	Table 22
Leningrad (LDHS), U.S.S.R. (Average values)	Table 23
Sverdlovsk, U.S.S.R. (Average values)	Table 24
Alma Ata, U.S.S.R. (Average values)	Table 25

April 1946

Clyde, Baffin I. (Median values)	Table 26
Leningrad, (LDHS), U.S.S.R. (Average values)	Table 27
Alma Ata, U.S.S.R. (Average values)	Table 28

March 1946

Clyde, Baffin I. (Median values)	Table 29
--------------------------------------------	----------

Provisional dataFebruary 1946

Clyde, Baffin I. (Median values) Table 30

January 1946

Clyde, Baffin I. (Median values) Table 31

December 1945

Clyde, Baffin I. (Median values) Table 32

November 1945

Clyde, Baffin I. (Median values) Table 33

Final dataJuly 1946

Washington, D.C. (Median values) Table 34
Figs. 1 and 2

June 1946

Fairbanks, Alaska (Median values) Table 35
Figs. 3 and 4

Churchill, Canada (Median values) Table 36
Figs. 5 and 6

Prince Rupert, Canada (Median values) Table 37
Figs. 7 and 8

Adak, Alaska (Median values) Table 38
Figs. 9 and 10

St. John's, Newfoundland (Median values) Table 39
Figs. 11 and 12

Ottawa, Canada (Median values) Table 40
Figs. 13 and 14

Christchurch, New Zealand (Median values) Table 41
Figs. 15 and 16

Boston, Massachusetts (Median values) Table 42
Figs. 17 and 18

San Francisco, California (Median values) Table 43
Figs. 19 and 20

Tokyo, Japan (Median values) Table 44
Figs. 21 and 22

Baton Rouge, Louisiana (Median values) Table 45
Figs. 23 and 24

San Juan, Puerto Rico (Median values) Table 46
Figs. 25 and 26

Trinidad, Brit. West Indies (Median values) Table 47
Figs. 27 and 28

Christmas I. (Median values) Table 48
Figs. 29 and 30

Huancayo, Peru (Median values) Table 49
Figs. 31 and 32

Final dataJune 1946 (continued)

Johannesburg, Union of S. Africa (Median values)	Table 50
	Figs. 33 and 34

May 1946

The Pas, Manitoba (Median values)	Table 51
	Figs. 35 and 36
Adak, Alaska (Median values)	Table 52
	Figs. 37 and 38
St. John's, Newfoundland (Median values)	Table 53
	Figs. 39 and 40
Chungking, China (Median values)	Table 54
	Figs. 41 and 42
Maui, Hawaii (Median values)	Table 55
	Figs. 43 and 44
Leyte, Philippine Is. (Median values)	Table 56
	Figs. 45 and 46
Christmas I. (Median values)	Table 57
	Figs. 47 and 48
Brisbane, Australia (Median values)	Table 58
	Figs. 49 and 50
Canberra, Australia (Median values)	Table 59
	Figs. 51 and 52
Hobart, Tasmania (Median values)	Table 60
	Figs. 53 and 54
Christchurch, New Zealand (Median values)	Table 61
	Figs. 55 and 56

April 1946

Churchill, Canada (Median values)	Table 62
	Figs. 57 and 58
Peiping, China (Median values)	Table 63
	Fig. 59
Leyte, Philippine Is. (Median values)	Table 64
	Figs. 60 and 61
Singapore, Brit. Malaya (Median values)	Table 65
	Fig. 62
Brisbane, Australia (Median values)	Table 66
	Figs. 63 and 64
Falkland Is. (Median values)	Table 67
	Figs. 65 and 66

March 1946

Peshawar, India (M 3000, average values; others, median values)	Table 68
	Figs. 67 and 68
Delhi, India (M 3000, average values; others, median values)	Table 69
	Figs. 69 and 70

Final dataMarch 1946 (continued)

Bombay, India (M 3000, average values; others, median values)	Table 70 Figs. 71 and 72
Madras, India (M 3000, average values; others, median values)	Table 71 Figs. 73 and 74
Singapore, Brit. Malaya (Median values)	Table 72 Fig. 75

February 1946

Peshawar, India (M 3000, average values; others, median values)	Table 73 Figs. 76 and 77
Delhi, India (M 3000, average values, others, median values)	Table 74 Fig. 78
Bombay, India (M 3000, average values; others, median values)	Table 75 Figs. 79 and 80
Madras, India (M 3000, average values; others, median values)	Table 76 Fig. 81

IONOSPHERIC DATA FOR EVERY DAY AND HOUR Page 10

July 1946Washington, D.C.

h'F2	Table 77
f ^o F2	Tables 78 and 79
h'F1	Table 80
f ^o F1	Table 81
h'E	Table 82
f ^o E	Table 83
E _s	Table 84
F2-M1500	Table 85
F2-M3000	Table 86
F1-M3000	Table 87
E-M1500	Table 88

IONOSPHERE DISTURBANCES Page 10

Ionospheric Storminess Table 89

Ionospheric character and principal storms observed
at Washington, D.C., July 1946.

Sudden Ionosphere Disturbances

Sudden ionosphere disturbances observed at Washington,
D.C., during July 1946. Table 90

Radio Propagation Quality Figures, Compared with CRPL Warnings
and CRPL Probable Disturbed Period Forecasts.

North Atlantic and North Pacific quality figures,

June 1946, provisional Table 91

AMERICAN RELATIVE SUNSPOT NUMBERS Page 11

Daily Median Values of American Relative Sunspot

Numbers, July 1946 Table 92

SUNSPOT GROUP OF JULY 19 THROUGH AUGUST 2, 1946, AND ASSO-

CIATED EFFECTS Page 11

ERRATA Page 13

TERMINOLOGY AND SCALING PRACTICES

The symbols and terminology used in this report are those adopted by the International Radio Propagation Conference, and given in detail on pages 24 to 26 of the report IRPL-C61, "Report of International Radio Propagation Conference," and in the section on "Terminology," in reports IRPL-F1, 2, 3, 4, 5.

In the past, ionospheric conditions were summarized on a monthly basis by using average or mean values, for each hour of the day, for each month. However, following the recommendations of the International Radio Propagation Conference, held in Washington 17 April to 5 May 1944, beginning with data for 1 Jan. 1945, median values were used by IRPL wherever possible. Thus, median values are given for Washington, for all stations reporting directly to the CRPL, for the Canadian stations, and for all others sending in detailed tabulations to the CRPL, from which medians can be computed.

Where averages are reported, they are, at any hour, the average for all the days during the month for which numerical data existed.

The monthly median values used here are the values equaled or exceeded on half the days of the month at the given hour. The following conventions are used in determining the medians for hours when no measured values are given because of equipment limitations and ionospheric irregularities. Symbols used are those given in the report referred to above, IRPL-C61.

a. For all ionospheric characteristics:

Values missing because of A, B, C or F (see terminology referred to above) are omitted from the median count.

b. For critical frequencies and virtual heights:

Values missing because of E are counted as equal to or less than the lower limit of the recorder.

Values missing because of D are counted as equal to or greater than the upper limit of the recorder.

Values missing because of G are counted:

1. For f^oF_2 , as equal to or less than f^oF_1 .

2. For h^oF_2 , as equal to or greater than the median.

Values missing for any other reason are omitted from the median count.

c. For muf factors (M-factors):

Values missing because of G are counted as equal to or less than the median.

Values missing for any other reason are omitted from the median count.

d. For sporadic E (Es):

Values of fEs missing because no Es reflections appeared, the equipment functioning normally otherwise, are counted as equal to or less than the lower limit of the recorder.

Values of fEs missing for any other reason, and values of hEs missing for any reason at all, are omitted from the median count.

Beginning with data for November 1945, doubtful monthly median values for ionospheric observations at Washington, D.C., are indicated by parentheses, in accordance with the practice already in use for doubtful hourly values. The following are the conventions used to determine whether or not a median value is doubtful:

1. If only four values or less are available, no median value is computed, the data being considered insufficient.

2. For the F2 layer, if only five to nine values are available, the median is considered doubtful. The E and F1 layers are so regular in their characteristics that, so long as there are at least five values, the median is not considered as doubtful.

3. For all layers, if more than half of the values used to compute the median are doubtful (either doubtful or interpolated), the median is considered doubtful.

It is expected that this practice will be of assistance in evaluating the monthly median Washington data.

The same conventions are used by the CRPL in computing the medians from tabulations of daily and hourly data for stations other than Washington, beginning with the tables in IRPL-F16.

"Extent of E" is defined as follows: the highest value of f^oE . This is usually Es, but may include cases of normal E which were difficult to distinguish from Es owing to the absence of a definite cusp.

MONTHLY AVERAGES AND MEDIAN VALUES OF IONOSPHERIC DATA

The ionospheric data given here in graphical and tabular form were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL predictions of radio propagation conditions. The following are the sources of the data:

Australian Council for Scientific and Industrial Research,

Radio Research Board, Australia:

Brisbane, Australia
Canberra, Australia
Cape York, Australia
Hobart, Tasmania

British Department of Scientific and Industrial Research

(National Physical Laboratory):

Slough, England
Great Baddow, England
Burghead, Scotland
Capetown, Union of S. Africa
Colombo, Ceylon
Oslo, Norway
Cairo, Egypt
Falkland Is.
Tromsø, Norway

Canadian Radio Wave Propagation Committee:

Churchill, Canada
Ottawa, Canada
St. John's, Newfoundland
Prince Rupert, Canada
Clyde, Baffin I.
Swan River, Manitoba (Mobile unit)
The Pas, Manitoba (Mobile unit)
Gillam, Manitoba (Mobile unit)

New Zealand Radio Research Committee:

Kermadec Is.
Christchurch (Canterbury University College Observatory)
Campbell I.
Pitcairn I.
Rarotonga I.

South African Council for Scientific and Industrial Research:

Johannesburg, Union of S. Africa.

Scientific Research Institute of Terrestrial Magnetism, Moscow, U.S.S.R.:

Bukhta Tikhaya, U.S.S.R.
 Tomsk, U.S.S.R.
 Sverdlovsk, U.S.S.R.
 Moscow, U.S.S.R.
 Leningrad, U.S.S.R.
 Alma Ata, U.S.S.R.

Carnegie Institution of Washington (Department of Terrestrial Magnetism):

Christmas I.
 Maui, Hawaii
 Trinidad, Brit. West Indies
 Huancayo, Peru
 Watheroo, W. Australia
 Adak, Alaska

United States Army Signal Corps:

Leyte, Philippine Is.
 Guam I.
 Tokyo, Japan
 Okinawa, I.

National Bureau of Standards (Central Radio Propagation Laboratory):

Washington, D. C.
 San Francisco, California (Stanford University)
 Baton Rouge, Louisiana (Louisiana State University)
 San Juan, Puerto Rico (University of Puerto Rico)
 Boston, Massachusetts (Harvard University)
 Fairbanks, Alaska (University of Alaska, College, Alaska)

All India Radio (Government of India), New Delhi, India:

Bombay, India
 Delhi, India
 Madras, India
 Peshawar, India

Radio Wave Research Laboratories, Central Broadcasting Administration:

Chungking, China
 Peiping, China

National Wuhan University:

Loshan, China

The tables of "provisional data" give values (1) as reported either to the CRPL or other central laboratory by telephone or telegraph; or (2) which are reported in summary form by stations from which monthly ionospheric data for every day and every hour may normally be expected at a later date.

The tables and graphs of "final data" are correct for the values reported to the CRPL, but, because of variations in practice in the interpretation of records and scaling and manner of reporting of values, may at times give an erroneous conception of typical ionospheric characteristics at the station. Some of these errors are due to:

- a. Differences in scaling records where spread echoes are present.
- b. Omission of values where f^oF_2 is less than or equal to f^oF_1 , leading to erroneously high values of monthly average or median values.
- c. Omission of values where critical frequencies are less than the lower frequency limit of the recorder, also leading to erroneously high values of monthly average or median values.

These effects were discussed on pages 6 and 7 of the previous F-series reports, IRPL-F1, 2, 3, 4, and 5.

The dashed-line prediction curves of the graphs of ionospheric data are obtained from the predicted zero-muf contour charts of the CRPL-D series publications. Predictions for individual stations used to construct the charts may be more accurate than the values read from the chart since some smoothing of the contours is necessary to allow for the longitude effect within a zone.

Discrepancies between predicted and observed values are often ascribable to these effects.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR

These data, observed at Washington, D. C., follow the scaling practices given in the report IRPL-C61, "Report of International Radio Propagation Conference," pages 36 to 39, and the median values are determined by the conventions given under "Terminology and Scaling Practices" above.

IONOSPHERE DISTURBANCES

Table 89 presents ionosphere character figures for Washington, D. C., during July 1946, as determined by the criteria presented in the report IRPL-R5, "Criteria for Ionospheric Storminess," together with American magnetic K-figures which are usually covariant with them.

Table 91 gives provisional radio propagation quality figures for North Atlantic and North Pacific areas, for 01 to 12 and 13 to 24 GCT, June 1946, compared with the CRPL daily radio disturbance warnings, which are primarily for the North Atlantic paths, the CRPL weekly radio propagation forecasts of probable disturbed periods, and the half-day American geomagnetic K-figures.

The radio propagation quality figures for the North Atlantic were prepared from radio traffic and ionospheric data reported to the CRPL, in the manner described in detail in report IRPL-R31, "North Atlantic Radio Propagation Disturbances October 1943 through October 1945," issued 1 Feb. 1946.

The radio propagation quality figures for the North Pacific were prepared from radio traffic and ionospheric data reported to the CRPL, in a manner similar to that of IRPL-R31. The master scale of IRPL-R31 was used to formulate conversion scales for the North Pacific reports. Currently, beginning with CRPL-F23, issued July 1946, the North Pacific radio propagation quality figures reported are prepared from these revised conversion scales rather than, as hitherto, from the conversion scales of report IRPL-R13, "Ionospheric and Radio Propagation Disturbances, October 1943 through February 1945," issued 24 May 1945.

These radio propagation quality figures give a consensus of opinion of actual radio propagation conditions as reported by the half day over the two general areas. It should be borne in mind, however, that though the quality may be disturbed according to the CRPL scale, the cause of the disturbance is not necessarily known. There are many variables that must be considered. In addition to ionospheric storminess itself as the

cause, conditions may be reported as disturbed because of seasonal characteristics, such as are particularly evident in the pronounced day and night contrast over North Pacific paths during the winter months, or because of improper frequency usage for the path and time of day in question. Insofar as possible, frequency usage is included in rating the reports. Where the actual frequency usage is not shown in the report to the CRPL, it has been assumed that the report is made on the use of optimum working frequencies for the path and time of day in question. Since there is a possibility that all of the disturbance shown by the quality figures is not due to ionospheric storminess alone, care should be taken in using the quality figures in research correlations with solar, auroral, geomagnetic, or other data. Nevertheless, these quality figures do reflect a consensus of opinion of actual radio propagation conditions as found on any one half-day in either of the two general areas.

AMERICAN RELATIVE SUNSPOT NUMBERS

Table 92 presents the daily median values of relative sunspot numbers as reported by American observers. The reports have been reduced, by appropriate constants, approximately to the Zurich scale of relative sunspot numbers. The monthly relative sunspot number is the mean of the daily median values listed in the table. This method was devised by Mr. A. E. Shapley of DTM, CIW. Details will be found in "Popular Astronomy," Vol. 54, No. 7, pp. 351 to 358, Aug. 1946; title: American Observations of Relative Sunspot Numbers in 1945 for Application to Ionospheric Prediction - by A. H. Shapley.

SUNSPOT GROUP OF JULY 19 THROUGH AUGUST 2, 1946 AND ASSOCIATED TERRESTRIAL EFFECTS

The sunspot group crossing the solar disc July 19 through August 2, 1946, though only about two-thirds the size of the largest one on record on the disc January 29 to February 11, 1946, was rated as one of the five largest of all time by the Mt. Wilson Observatory. The average size of the group was 3500 millionths of the sun's visible disc, according to the reports of the U.S. Naval Observatory, or about 70 times the area of the earth. It was easily visible to the naked eye through smoked glass.

As with the February group, many solar flares were observed which were accompanied by SID. Table 90 of this report presents the sudden

ionosphere disturbances for the whole month. The most severe and prolonged SID occurred on July 25, beginning about 1510 GCT, and resembled the one of Feb. 6, 1946, reported in IRL-721, "Ionospheric Data," issued May, 1946.

A moderate geomagnetic storm with no individual K-figure greater than four was recorded by the Cheltenham, Md. Observatory of the U. S. Coast and Geodetic Survey from 0800 GCT, July 25, to 0600 GCT, July 26. A storm of unusual severity was reported beginning with a sudden commencement at 1845 GCT, July 26, during the course of which two consecutive K figures of 9 (maximum geomagnetic disturbance) occurred. This sudden commencement would indicate a travel time for the corpuscular stream from the sun to the earth of about $27\frac{1}{2}$ hours, if the stream started at the time of the flare that gave rise to the severe SID of July 25. The sunspot group was crossing the sun's central meridian on July 26, thus being in a favorable position for causing disturbance on that date and the days following.

The severe geomagnetic storm ended at 1700 GCT, July 27, but a moderate to severe storm followed at 2000 GCT, July 28, lasting until 1900 GCT, July 30. Though the trace was quiet after then, the general level of the horizontal geomagnetic intensity was depressed below normal through August 1.

Other evidence of the pronounced terrestrial effects associated with this sunspot group was the prevalence of brilliant aurora in the early Greenwich hours of July 27. A spectacular display of rays from horizon to beyond the zenith with changing form and color was observed at Washington, D.C.

Beginning with CRPL-J 159, "Radio Propagation Forecast," issued July 3, 1946, July 26-27 was listed as a probable disturbed period and the period was extended July 27-30 in CRPL-J 161, issued July 26. The North Atlantic radio propagation disturbance warning was broadcast continuously on WWV, Washington, D. C., from 2100 GCT, July 25, through 2100 GCT, July 31.

The radio propagation reports received by the CRPL have clearly indicated the correctness of the above forecasts. Fairbanks, Alaska, reported a blackout of vertical-incidence ionosphere records from 1800 GCT, July 26 to 0800 GCT, July 28, from 1200 GCT, July 28, to 0800 GCT, July 29, from 1300 GCT, July 29 to 0400 GCT, July 30, and 1200-1400 and 1800 GCT, July 30. Churchill, Canada, reported complete blackout from 1700 GCT, July 25 into July 28 with conditions much below normal into July 31 and still moderately disturbed on August 1. Ottawa, Canada, Prince Rupert, B.C. and St. John's, Newfoundland, also reported a blackout of vertical-incidence reflections on July 26-27. Even the Washington, D.C., ionospheric records were blacked out from 0100 to 0900 GCT, July 27. Table 91 of this report presents the ionospheric storminess character figures for Washington, D.C., for this period in detail.

Such radio traffic data thus far reported by the FCC, Army, Navy, and commercial networks indicated European stations to be unheard most of July 26-27 with at least moderate disturbance continuing into July 31.

ERRATA

1. CRPL-F23, Table 52:

The asterisk (*) in the heading of FEs column, referring to the note at the bottom of the page, was omitted.

2. CRPL-F23:

Table 39, for hours indicated, should read as follows:

f^oF2

20	-	-	-	-	-	8.6
21	-	-	-	-	-	8.6
22	-	-	-	-	-	8.5
23	-	-	-	-	-	8.6

Table 42, for hours indicated, should read as follows:

fEs

01	-	-	-	-	-	2.7
02	-	-	-	-	-	2.7
03	-	-	-	-	-	2.6
04	-	-	-	-	-	2.6

Table 80, for date indicated, should read as follows:

<u>Date</u>	<u>No.</u>
10	36

3. The position of Cairo, Egypt, as given in IRPL-F18 through -F22, should have been 30.6°N, 31.9°E.

4. The position of Falkland Is., as given in IRPL-F19 through -F21, should have been 51.7°S, 57.7°W.

Table 1 (Provisional Data)

Olyda, Baffin I. (70.5°N, 68.6°W)										July 1946	
Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'a	f'a	P2-M3000		
00		4.3							2.9		
01		4.5							3.0		
02		4.4							3.0		
03		4.4							3.0		
04		4.3							2.8		
05		4.4							2.8		
06		4.4							2.5		
07		4.6							2.6		
08		4.9							2.7		
09		5.0							2.7		
10		5.0							2.7		
11									2.7		
12		4.8							2.7		
13		4.9							2.6		
14		4.7							2.7		
15		4.9							2.8		
16		4.9							2.7		
17		4.7							2.9		
18		4.7							2.9		
19		4.6							2.9		
20		4.7							2.9		
21		4.5							2.9		
22		4.5							2.9		
23		4.4							3.0		

Time: 75.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 3 (Provisional Data)

Churchill, Canada (58.8°N, 94.2°W)										July 1946	
Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'a	f'a	P2-M3000		
00		5							2.7		
01		4.5							2.8		
02		4.5							2.8		
03		4.7							2.9		
04		4.6							2.8		
05		4.7							2.7		
06		5.1							2.8		
07		5.4							2.8		
08		5.4							2.6		
09		5.4							2.7		
10		5.7							2.6		
11		5.0							2.7		
12		5.1							2.7		
13		5.3							2.6		
14		6.4							2.7		
15		6.4							2.6		
16		- 3							2.7		
17									2.7		
18									2.8		
19									2.8		
20									2.8		
21		5.0							2.8		
22		4.9							2.7		
23		5.0							2.8		

Time: 90.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Fairbanks, Alaska (64.5°N, 147.8°W)

Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'a	f'a	P2-M3000	July 1946	
00	300	4.5							1.8	3.5	2.7
01	310	4.4								5.5	2.7
02	330	4.8								5.0	2.6
03	380	4.8							2.1	4.2	2.6
04	420	5.0							2.4	5.0	2.6
05	420	5.4	300	3.6					2.6	5.1	2.6
06	460	5.2	240	3.9					3.0	3.8	2.4
07	470	5.2	240	4.1					3.0	3.5	2.6
08	460	5.6	230	4.4					3.1	3.8	2.5
09	480	5.7	220	4.5					3.2	3.6	2.5
10	480	5.6	230	4.6					3.4	3.6	2.5
11	460	5.4	220	4.6					3.5	3.4	2.5
12	490	5.7	220	4.7					3.3	3.4	2.5
13	480	5.6	230	4.7					3.3	3.6	2.6
14	500	5.5	220	4.6					3.2	3.3	2.6
15	440	5.6	220	4.5					3.0	3.2	2.6
16	440	5.7	230	4.3					2.8	3.2	2.7
17	400	5.6	230	3.9					2.5	3.2	2.8
18	320	5.6	250	3.8					2.1	3.5	2.8
19	270	5.6	250						1.9	3.3	2.8
20	280	5.5							1.6	4.0	2.8
21	290	5.2							1.6	3.5	2.8
22	270	5.0									
23	280	5.0									

Time: 150.0°W.

Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 4 (Provisional Data)

Prince Rupert, Canada (54.5°N, 130.5°W)										July 1946	
Time	h'P2	f'P2	h'P1	f'P1	h'E	f'E	h'a	f'a	P2-M3000		
00		4.2							3.1	3.1	3.1
01		3.5							3.0	3.0	3.0
02		3.5							2.9	2.9	2.9
03		3.1							3.0	3.0	3.0
04		3.2							2.8	2.8	2.8
05		4.1							2.8	2.8	2.8
06		4.8							2.7	2.7	2.7
07		5.2							2.7	2.7	2.7
08		5.1							2.6	2.6	2.6
09		5.5							2.8	2.8	2.8
10		5.6							2.7	2.7	2.7
11		5.8							2.8	2.8	2.8
12		5.8							2.7	2.7	2.7
13		5.7							2.8	2.8	2.8
14		5.7							2.8	2.8	2.8
15		5.7							2.8	2.8	2.8
16		5.6							2.9	2.9	2.9
17		5.8							3.0	3.0	3.0
18		5.8							3.1	3.1	3.1
19		6.0							3.1	3.1	3.1
20		5.9							3.1	3.1	3.1
21		5.7							3.1	3.1	3.1
22		5.2							3.1	3.1	3.1
23		4.7							3.1	3.1	3.1

Time: 120.0°W.

Sweep: Manual operation.

Median values.

Table 5 (Provisional Data)

Adak, Alaska (51.9°N, 176.6°W)

July 1946

Time	h'F2	h'F1	h'F2	h'F1	h'E	foF2	foF1	fEs	fEs	fEs
00	280	5.6								2.7
01										
02										
03										
04										
05										
06	420	5.8	250	4.3		2.9	6.2			2.5
07	320	6.5		4.5		2.7	5.8			2.6
08	420	6.1	220	4.5		3.0	5.4			2.6
09	4.0	6.3	210	4.9		2.9	5.6			2.6
10	400	6.6	210	5.0		3.1	5.1			2.6
11	320									2.9
12	390	6.6	190	5.1		3.3	6.2			2.9
13	390	6.4	200	5.0		3.1	5.0			2.7
14	400	6.1	200	5.0						2.7
15	420	5.9	200	4.9		3.2	5.3			2.7
16	370	5.9	220	4.5						2.9
17	340	5.7	240			3.1	4.5			3.0
18	390	6.1				2.6				2.8
19	280	6.4								2.8
20	260	6.4								2.8
21	270	6.8								2.8
22	270	6.4								2.8
23	290	6.0								2.7

Time: 180.0°W.
Sweep: Manual operation.
Median values.

Table 6 (Provisional Data)

St. John's, Newfoundland, 47.6°N, 52.7°W

July 1946

Time	h'F2	h'F1	h'F2	h'F1	h'E	foF2	foF1	fEs	fEs	fEs
00			5.9							3.0
01			5.9							3.1
02			5.3							3.1
03			4.8							3.2
04			4.4							3.3
05			4.0							3.3
06			5.0							3.3
07			5.0							3.3
08			5.7							3.1
09			5.6							3.2
10			6.0							3.1
11			6.3							3.1
12			6.0							3.0
13			6.1							3.0
14			6.0							3.0
15			6.4							3.0
16			6.7							3.0
17			6.8							3.1
18			6.8							3.1
19			7.0							3.2
20			6.8							3.1
21			6.8							3.0
22			6.6							3.0
23			6.5							3.1

Time: 52.8°W.
Sweep: Manual operation.
Median values.

Table 7 (Provisional Data)

Ottawa, Canada (45.8°N, 75.8°W)

July 1946

Time	h'F2	h'F1	h'F2	h'F1	h'E	foF2	foF1	fEs	fEs	fEs
00	5.1									2.9
01	4.7									2.9
02	3.9									3.0
03	3.7									3.0
04	3.3									3.0
05	3.8									3.0
06	4.4									3.0
07	4.8									3.0
08	5.7									2.9
09	5.9									2.8
10	6.0									2.7
11	6.1									2.8
12	5.8									2.6
13	6.0									2.6
14	6.4									2.6
15	6.3									2.6
16	6.2									2.6
17	6.5									2.7
18	6.8									2.7
19	6.9									2.8
20	7.1									2.8
21	6.9									2.8
22	6.4									2.9
23	5.1									2.8

Time: 75.0°W.
Sweep: 1.93 Mc to 13.5 Mc. Manual operation.
Median values.

Table 8 (Provisional Data)

Boston, Massachusetts (42.4°N, 71.2°W)

July 1946

Time	h'F2	h'F1	h'F2	h'F1	h'E	foF2	foF1	fEs	fEs	fEs
00			6.1							2.7
01			5.4							2.6
02			4.9							2.7
03			4.6							2.7
04			4.7							2.9
05			4.3							2.8
06			4.6							2.8
07			5.1							2.8
08			5.6							2.7
09			6.0							2.7
10			6.5							2.7
11			6.6							2.6
12			6.5							2.7
13			6.6							2.7
14			6.7							2.6
15			6.5							2.6
16			6.6							2.6
17			6.6							2.7
18			6.8							2.7
19			6.5							2.7
20			6.7							2.7
21			6.6							2.7
22			6.7							2.7
23			6.5							2.6

Time: 78.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.
Median values.

Table 9 (Provisional Data)

San Francisco, California (37.4°N, 122.2°W)

July 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs	fEs
00		5.0						2.6
01		4.9						2.6
02		4.8						2.6
03		4.4						2.6
04		4.1						2.6
05		4.0						2.7
06		4.9						2.7
07		5.8						3.7
08		6.4						2.8
09		7.2						2.7
10		7.4						2.8
11		7.6						2.7
12		8.0						2.8
13		7.8						2.8
14		7.6						2.8
15		7.5						2.8
16		7.4						2.9
17		7.2						2.9
18		7.2						3.0
19		6.8						3.0
20		7.0						3.0
21		6.2						2.8
22		5.5						2.8
23		5.0						2.6

Time: 120.0°W.

Sweep: 0.8 Mc to 12.0 Mc in six minutes. Record centered on the hour.

Median values.

Table 10 (Provisional Data)

Baton Rouge, Louisiana (30.6°N, 91.2°W)

July 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs	fEs
00		5.4						3.0
01		5.0						3.0
02		4.9						2.9
03		4.7						3.0
04		4.7						3.0
05		4.6						3.0
06		5.5						2.9
07		6.5						2.9
08		7.3						2.9
09		8.0						2.9
10		8.2						2.9
11		8.1						2.9
12		8.6						2.8
13		10.9						2.8
14		8.2						2.8
15		8.4						2.9
16		8.5						2.9
17		8.3						3.0
18		8.0						3.0
19		7.3						3.1
20		6.7						3.0
21		6.4						3.0
22		6.0						2.9
23		5.8						2.9

Time: 90.0°W.

Sweep: 1.9 Mc to 9.8 Mc in three minutes, 30 seconds.

Median values.

Table 11 (Provisional Data)

Trinidad, British West Indies (10.6°N, 61.2°W)

July 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs	fEs
00	260	9.4						2.9
01	260	9.0						2.9
02	260	8.3						2.9
03	260	7.8						2.1
04	260	7.0						2.1
05	260	6.5						2.6
06	260	6.8						2.3
07	260	7.3						2.3
08	260	7.9						2.3
09	260	8.7						2.3
10	260	9.6						2.6
11	370	10.8						2.6
12	350	11.3						2.7
13	350	11.7						2.7
14	350	11.6						2.7
15	360	11.7						2.8
16	320	11.8						2.8
17	310	11.3						2.8
18	290	10.6						2.8
19	270	10.1						2.7
20	290	10.7						2.7
21	280	10.6						2.7
22	280	10.4						2.6
23	270	10.0						2.1

Time: 60.0°W.

Sweep: Manual operation.

Median values.

Table 12 (Provisional Data)

Brisbane, Australia (27.5°S, 153.0°E)

July 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs	fEs
00		4.2						2.9
01		4.1						2.9
02		3.8						3.0
03		3.6						3.0
04		3.4						2.8
05		3.1						3.3
06		3.6						3.0
07		6.3						3.3
08		8.1						3.3
09		9.4						3.3
10		9.6						3.2
11		9.1						3.2
12		8.7						3.1
13		8.9						3.1
14		9.1						3.0
15		8.8						3.1
16		8.2						3.1
17		8.0						3.1
18		7.0						3.1
19		6.1						2.9
20		5.3						3.0
21		5.1						2.9
22		4.6						3.0
23		4.2						2.8

Time: Local.

Sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Median values.

Table 12 (Provisional Data)

Wetheroo, W. Australia (30.5°S, 115.9°E)

July 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	F ₂ F ₁	H ₁ E	F ₂ E	F ₂ M	F ₂ M	F ₂ M
00		3.5							2.9
01		3.6							2.8
02		3.8							2.9
03		3.8							3.0
04		3.6							2.9
05		3.3							2.9
06		3.2							3.1
07		5.4							3.3
08		7.8							3.4
09		8.6							3.4
10		9.2							3.3
11		9.3							3.3
12		9.2							3.1
13		9.6							3.1
14		9.5							3.1
15		9.7							3.1
16		9.4							3.1
17		8.4							3.2
18		6.8							3.1
19		5.3							3.1
20		4.3							3.2
21		3.7							3.0
22		3.7							2.9
23		3.5							2.8

Time: 120.0°E.

Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 13 (Provisional Data)

Cambarra, Australia (36.5°S, 149.0°E)

July 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	F ₂ F ₁	H ₁ E	F ₂ E	F ₂ M	F ₂ M	F ₂ M
00		4.0							2.7
01		4.0							2.7
02		4.0							2.8
03		3.9							2.7
04		3.9							2.7
05		3.6							2.8
06		3.3							2.7
07		4.6							2.9
08		7.3							3.1
09		8.2							3.1
10		8.5							3.1
11		8.7							3.0
12		8.5							3.0
13		8.8							3.0
14		8.4							3.0
15		8.4							3.0
16		8.1							3.0
17		7.6							3.0
18		6.6							2.9
19		5.8							2.9
20		5.1							2.8
21		4.5							2.8
22		4.3							2.8
23		4.1							2.7

Time: Local.

Sweep: 1.6 Mc to 12.5 Mc in two minutes.

Median values.

Table 14 (Provisional Data)

Wetheroo, W. Australia (30.5°S, 115.9°E)

July 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	F ₂ F ₁	H ₁ E	F ₂ E	F ₂ M	F ₂ M	F ₂ M
00		3.5							2.9
01		3.6							2.8
02		3.8							2.9
03		3.8							3.0
04		3.6							2.9
05		3.3							2.9
06		3.2							3.1
07		5.4							3.3
08		7.8							3.4
09		8.6							3.4
10		9.2							3.3
11		9.3							3.3
12		9.2							3.1
13		9.6							3.1
14		9.5							3.1
15		9.7							3.1
16		9.4							3.1
17		8.4							3.2
18		6.8							3.1
19		5.3							3.1
20		4.3							3.2
21		3.7							3.0
22		3.7							2.9
23		3.5							2.8

Time: 120.0°E.

Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Median values.

Table 15 (Provisional Data; supercedes Table 1, CRPL-T23)

Olyde, Buffin I. (70.8°N, 69.6°W)

June 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	F ₂ F ₁	H ₁ E	F ₂ E	F ₂ M	F ₂ M	F ₂ M
00	280	4.4							3.0
01	300	4.4							3.0
02	300	4.4							3.0
03	380	4.4							2.9
04	390	4.3							2.8
05	480	4.3							2.8
06	460	4.4							2.6
07	450	4.5							2.7
08	475	4.8							2.6
09	(400)	(5.0)							2.6
10	(400)	(5.2)							2.8
11	430	5.2							2.8
12	400	5.2							2.9
13	(400)	(5.2)							2.9
14	480	5.0							2.7
15	450	5.0							2.7
16	450	4.8							2.7
17	385	4.9							2.9
18	370	4.7							2.9
19	350	4.8							2.9
20	360	4.7							2.9
21	335	4.7							2.9
22	300	4.5							3.0
23	290	4.4							3.1

Time: 75.0°W

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 16 (Provisional Data)

Churchill, Canada (58.8°N, 94.3°W)

June 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	F ₂ F ₁	H ₁ E	F ₂ E	F ₂ M	F ₂ M	F ₂ M
00		4.8							2.8
01		4.9							2.8
02		4.4							2.9
03		4.4							2.9
04		4.7							2.9
05		4.7							2.9
06		4.8							2.8
07		5.0							2.9
08		5.4							2.8
09		5.4							2.7
10		5.7							2.7
11		5.8							2.7
12		5.9							2.8
13		6.0							2.7
14		6.2							2.7
15		6.3							2.7
16		6.4							2.7
17		6.2							2.6
18		6.1							2.9
19		5.8							2.9
20		5.6							2.9
21		5.4							2.9
22		5.2							2.6
23		5.0							2.8

Time: 90.0°W

Sweep: 2.0 Mc to 16.0 Mc in one month.

Median values.

Table 17 (Provisional Data)

Okinawa I. (26.3°N, 127.8°E)										June 1946	
Time	h/P2	f/P2	h/P1	f/P1	h/E	f/E	P2	P1	P0	P2-M0000	P2-M0000
00		7.9				6.0	2.7				
01		7.9				5.6	2.7				
02		7.9				5.3	2.6				
03		7.1				5.1	2.7				
04		6.8				4.7	2.9				
05		6.6				4.7	2.9				
06		6.9				5.0	3.0				
07		7.4				5.1	3.1				
08		7.4				3.2	2.9				
09		8.1				3.5	2.8				
10		8.3				3.7	2.6				
11		8.6				3.9	2.5				
12		9.7				4.1	2.6				
13		10.6				4.0	2.7				
14		10.8				3.9	2.8				
15		11.0				3.7	2.8				
16		10.9				3.4	2.8				
17		10.9				3.2	2.8				
18		10.7				2.6	2.9				
19		10.2				5.5	3.0				
20		8.6				5.6	2.8				
21		8.1				4.7	2.6				
22		8.3				4.1	2.5				
23		8.3				3.8	2.6				

Time: 135.0°E.
Sweep: Manual operation.
Median values.

Table 18 (Provisional Data)

Okinawa I. (18.5°N, 144.8°E)										June 1946	
Time	h/P2	f/P2	h/P1	f/P1	h/E	f/E	P2	P1	P0	P2-M0000	P2-M0000
00		350				8.6				3.6	3.8
01		320				7.0				2.4	2.8
02		310				6.9				2.3	2.9
03		300				6.6					3.1
04		280				6.4					3.2
05		260				5.5					3.2
06		260				6.0					3.2
07		240				7.3					3.1
08		350				8.2					3.1
09		390				8.7					2.9
10		360				9.6					2.6
11		360				9.7					2.5
12		390				10.1					2.4
13		400				10.4					2.4
14		390				11.3					2.5
15		360				11.6					2.6
16		320				11.6					2.6
17		300				11.8					2.6
18		270				11.7					2.7
19		280				11.4					2.7
20		330				10.3					2.8
21		360				9.2					2.6
22		350				9.1					2.6
23		350				8.5					3.6

Time: 180.0°E.
Sweep: Manual operation.
Average values.

Table 19 (Provisional Data)

Loyte Philippine Is. (11.0°N, 125.0°E)										June 1946	
Time	h/P2	f/P2	h/P1	f/P1	h/E	f/E	P2	P1	P0	P2-M0000	P2-M0000
00		8.5				1.5	2.8				
01		7.6				<1.6	3.0				
02		7.4				<1.6	3.0				
03		6.8				<1.6	3.1				
04		6.2				1.8	3.1				
05		5.5				<1.6	2.9				
06		4.9				2.2	3.4				
07		7.2				3.0	2.9				
08		8.9				3.5	2.6				
09		9.3				3.8	2.4				
10		9.4				3.9	2.3				
11		9.4				3.9	2.3				
12		9.5				4.3	2.3				
13		9.7				8.5	2.3				
14		9.9				3.9	2.3				
15		10.0				3.6	2.3				
16		10.2				3.3	2.4				
17		10.5				2.6	2.6				
18		10.6				6.1	4.8				
19		10.5				3.5	3.4				
20		9.5				3.1					
21		9.1									
22		8.2									
23		8.2									

Time: 135.0°E.
Sweep: Manual operation.
Median values.

Table 20 (Provisional Data)

Brisbane, Australia (27.8°S, 153.0°E)										June 1946	
Time	h/P2	f/P2	h/P1	f/P1	h/E	f/E	P2	P1	P0	P2-M0000	P2-M0000
00		4.0				4.1	3.0				
01		4.1				4.2	3.0				
02		4.1				4.1	3.0				
03		4.2				3.9	3.0				
04		4.1				3.9	3.0				
05		3.9				3.9	3.0				
06		3.9				3.9	3.0				
07		3.9				3.9	3.0				
08		3.9				3.9	3.0				
09		3.9				3.9	3.0				
10		3.9				3.9	3.0				
11		3.9				3.9	3.0				
12		3.9				3.9	3.0				
13		3.9				3.9	3.0				
14		3.9				3.9	3.0				
15		3.9				3.9	3.0				
16		3.9				3.9	3.0				
17		3.9				3.9	3.0				
18		3.9				3.9	3.0				
19		3.9				3.9	3.0				
20		3.9				3.9	3.0				
21		3.9				3.9	3.0				
22		3.9				3.9	3.0				
23		3.9				3.9	3.0				

Time: Local.
Sweep: 2.2 Mc to 16.5 Mc in two minutes, then sweep.
Median values.

Table 21 (Provisional Data)

Netherlands, S. Australia (80.8°S, 118.0°E)									
June 1946									
Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	P ₂ -H3000
00		2.6							2.9
01		2.6							2.9
02		2.6							2.0
03		2.7							2.0
04		2.6							2.0
05		2.2							2.1
06		2.2							2.2
07		2.4							2.3
08		2.7							2.3
09		2.6							2.4
10		2.8							2.4
11		2.1							2.3
12		2.3							2.3
13		2.4							2.2
14		2.7							2.2
15		2.6							2.2
16		2.2							2.2
17		2.0							2.2
18		2.2							2.2
19		2.7							2.1
20		2.6							2.2
21		2.2							2.0
22		2.2							2.0
23		2.6							2.0

Time: Local.
Sweep: 16.0 m to 0.5 m in fifteen minutes.
Median values.

Table 22 (Provisional Data; supersedes Table 1, HPL-722)

Olyda, Martin I. (70.8°S, 68.0°W)									
May 1946									
Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	P ₂ -H3000
00		4.2							2.0
01		4.2							2.1
02		4.0							2.0
03		2.6							2.0
04		2.9							2.9
05		2.8							2.9
06		2.9							2.9
07		4.4							2.7
08		4.6							2.8
09		2.1							2.9
10		2.2							2.9
11		2.2							2.9
12		2.2							2.9
13		2.1							2.9
14		2.0							2.9
15		2.2							2.9
16		2.0							2.9
17		4.9							2.9
18		2.2							2.9
19		4.6							2.9
20		4.8							2.0
21		4.6							2.0
22		4.3							2.1
23		4.2							2.1

Time: 75.0°W.
Sweep: 2.0 to 16.0 m in one minute.
Median values.

Table 23 (Provisional Data)

Leningrad (LMS), U.S.S.R. (89.9°N, 30.3°E)									
May 1946									
Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	P ₂ -H3000
00		5.1							
01		5.2							
02		5.5							
03		5.7							
04		5.7							
05		5.9							
06		6.0							
07		6.2							
08		6.2							
09		6.2							
10		6.1							
11		6.2							
12		6.1							
13		6.2							
14		6.5							
15		6.0							
16		6.0							
17		6.0							
18		5.9							
19		5.8							
20		5.7							
21		5.6							
22		5.8							
23		5.4							

Time: 20.0°W.
Sweep: 1.5 m to 9.0 m in five to ten minutes. Manual operation.
Average values.

Table 24 (Provisional Data)

Seattle, U.S.S.R. (86.7°N, 63.1°E)									
May 1946									
Time	h ¹ /2	h ² /2	h ³ /2	h ⁴ /2	h ⁵ /2	h ⁶ /2	h ⁷ /2	h ⁸ /2	P ₂ -H3000
00		5.1							
01		5.8							
02		6.3							
03		6.6							
04		6.6							
05		6.9							
06		7.2							
07		7.5							
08		7.2							
09		7.4							
10		7.6							
11		7.0							
12		7.2							
13		7.0							
14		6.8							
15		6.9							
16		6.7							
17		6.8							
18		6.7							
19		6.2							
20		5.7							
21		5.4							
22		5.0							
23		4.6							

Time: 60.0°W.
Sweep: 1.5 m to 14.0 m to five to thirteen minutes. Manual operation.
Average values.

Table 25 (Provisional Data)

Alma Ata, U.S.S.R. (43.2°N, 76.9°E)

May 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	Time	P2-M2000
00		6.0						
01		6.0						
02		6.0						
03		7.2						
04		7.5						
05		8.4						
06		9.0						
07		9.8						
08		9.1						
09		9.6						
10		9.4						
11		9.6						
12		9.4						
13		9.6						
14		8.7						
15		8.5						
16		8.1						
17		7.3						
18		7.0						
19		6.7						
20		6.6						
21		6.6						
22		6.2						
23		6.5						

Time: 76.0°E.

Sweep: 2.0 Mc to 14.0 Mc in ten to twenty minutes. Manual operation.

Average values.

Table 27 (Provisional Data)

Leningrad (LMS), U.S.S.R. (59.9°N, 30.3°E)

April 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	Time	P2-M2000
00		4.0						
01		4.1						
02		3.9						
03		4.2						
04		5.0						
05		5.5						
06		6.8						
07		7.0						
08		7.4						
09		7.5						
10		7.8						
11		7.6						
12		7.8						
13		7.9						
14		7.6						
15		7.4						
16		7.2						
17		7.0						
18		6.9						
19		6.4						
20		5.8						
21		5.2						
22		4.8						
23		4.4						

Time: 30.0°E.

Sweep: 1.5 Mc to 9.0 Mc in five to ten minutes. Manual operation.

Average values.

Table 26 (Provisional Data; Supercedes Table 1, HFL-221)

Clyde, Barrin I. (70.6°N, 66.6°W)

April 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	Time	P2-M2000
00		4.4						3.1
01		3.8						3.0
02		3.8						3.2
03		3.7						3.1
04		4.0						3.2
05		3.9						3.2
06		4.1						3.1
07		4.5						3.0
08		4.8						3.0
09		5.2						3.0
10		5.1						3.0
11		5.2						3.0
12		5.2						3.0
13		5.4						3.0
14		4.9						3.0
15		4.9						2.9
16		5.2						3.0
17		5.0						3.0
18		5.0						3.1
19		4.9						3.1
20		4.8						3.1
21		4.4						3.2
22		4.6						3.2
23		4.4						3.1

Time: 75.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 28 (Provisional Data)

Alma Ata, U.S.S.R. (43.2°N, 76.9°E)

April 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	Time	P2-M2000
00		5.3						
01		5.1						
02		5.1						
03		5.2						
04		7.0						
05		6.1						
06		6.7						
07		9.4						
08		9.4						
09		10.0						
10		10.6						
11		10.8						
12		10.2						
13		10.3						
14		10.2						
15		9.3						
16		8.7						
17		7.6						
18		7.1						
19		7.0						
20		6.1						
21		6.0						
22		5.8						
23		5.5						

Time: 75.0°E.

Sweep: 2.0 Mc to 14.0 Mc in ten to twenty minutes. Manual operation.

Average values.

Table 29 (Provisional Data; supersedes Table 1, IRLP-20)

Clyde, Baffin I. (70.6°N, 68.6°W) March 1946									
Time	h ¹ h ²	f ¹ f ²	h ¹ f ¹	h ¹ f ²	f ² h ²	f ¹ h ²	f ² h ¹	f ² h ²	f ² h ¹
00		2.9			3.1				
01		4.4			3.1				
02		3.5			3.0				
03		3.4			3.1				
04		2.9			3.0				
05		3.3			3.1				
06		2.5			3.1				
07		4.4			3.1				
08		5.0			3.2				
09		5.3			3.3				
10		5.8			3.2				
11		5.5			3.2				
12		5.7			3.1				
13		5.6			3.3				
14		5.6			3.1				
15		5.6			3.1				
16		5.5			3.1				
17		5.4			3.2				
18		5.5			3.2				
19		5.4			3.1				
20		5.0			3.1				
21		5.2			3.2				
22		4.2			3.1				
23		4.7			3.1				

Time: 75.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 30 (Provisional Data; supersedes Table 12, IRLP-20)

Clyde, Baffin I. (70.6°N, 68.6°W) February 1946									
Time	h ¹ h ²	f ¹ f ²	h ¹ f ¹	h ¹ f ²	f ² h ²	f ¹ h ²	f ² h ¹	f ² h ²	f ² h ¹
00		3.6			3.3				3.3
01		3.7			3.4				3.3
02		3.4			3.2				3.2
03		3.2			3.3				3.6
04		3.3			3.4				3.2
05		3.4			3.5				3.2
06		3.5			3.5				3.5
07		3.5			4.3				3.4
08		4.3			5.2				3.4
09		5.4			5.4				3.4
10		5.4			5.7				3.4
11		5.4			5.2				3.4
12		5.7			5.4				3.4
13		5.2			5.4				3.4
14		5.4			5.2				3.4
15		5.2			5.3				3.4
16		5.3			5.2				3.4
17		5.2			5.2				3.4
18		5.2			4.8				3.4
19		4.8			4.3				3.4
20		4.3			3.8				3.3
21		3.8			3.5				3.6
22		3.5			3.6				3.2
23		3.6							3.2

Time: 75.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 31 (Provisional Data; supersedes Table 11, IRLP-19)

Clyde, Baffin I. (70.6°N, 68.6°W) January 1946									
Time	h ¹ h ²	f ¹ f ²	h ¹ f ¹	h ¹ f ²	f ² h ²	f ¹ h ²	f ² h ¹	f ² h ²	f ² h ¹
00		2.5			3.2				
01		2.3			3.2				
02		2.4			3.2				
03		2.4			3.4				
04					3.4				
05					(3.2)				
06		3.5			3.2				
07		3.2			3.2				
08		3.8			3.3				
09		3.8			3.3				
10		3.8			3.4				
11		4.0			3.8				
12		4.6			3.4				
13		4.8			3.4				
14		4.6			3.4				
15		4.6			3.4				
16		4.4			3.4				
17		4.2			3.2				
18		3.5			3.2				
19		3.1			3.4				
20		3.0			3.4				
21		2.6			3.2				
22		2.6			3.2				
23		2.8			3.2				

Time: 75.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 32 (Provisional Data; supersedes Table 1, IRLP-17)

Clyde, Baffin I. (70.6°N, 68.6°W) December 1945									
Time	h ¹ h ²	f ¹ f ²	h ¹ f ¹	h ¹ f ²	f ² h ²	f ¹ h ²	f ² h ¹	f ² h ²	f ² h ¹
00		2.5			3.1				3.1
01		2.5			3.1				3.1
02		2.3			3.1				3.1
03		2.4			3.1				3.1
04					3.2				3.2
05		2.6			3.2				3.2
06		2.4			3.2				3.2
07		2.5			3.1				3.1
08		3.0			3.2				3.2
09		3.4			3.3				3.3
10		3.6			3.3				3.3
11		4.2			3.3				3.3
12		4.2			3.2				3.2
13		4.0			3.2				3.2
14		4.6			3.2				3.2
15		4.3			3.2				3.2
16		3.8			3.2				3.2
17		2.6			3.1				3.1
18		2.4			3.2				3.2
19		2.0			3.2				3.2
20		2.5			3.2				3.2
21		2.8			3.2				3.2
22		2.7			3.1				3.1
23		2.5			3.2				3.2

Time: 75.0°W.

Sweep: 2.0 Mc to 16.0 Mc in one minute.

Median values.

Table 22 (Provisional Data; supersedes Table 11, IRPL-F17)

Clyde, Baffin I. (70.8°N, 88.6°W)

November 1945

Time	h'F2	f'F2	h'F1	f'F1	h'F	f'F	h'F2	f'F2	h'F1	f'F1	h'F	f'F
00	3.0											3.2
01	3.0											3.2
02	3.0											3.2
03	3.0											3.2
04	3.0											3.2
05	3.0											3.2
06	3.2											3.2
07	3.2											3.2
08	3.2											3.2
09	3.2											3.2
10	3.2											3.2
11	3.2											3.2
12	3.2											3.2
13	3.2											3.2
14	3.2											3.2
15	3.2											3.2
16	3.2											3.2
17	3.2											3.2
18	3.2											3.2
19	3.2											3.2
20	3.2											3.2
21	3.2											3.2
22	3.2											3.2
23	3.2											3.2

Time: 75.0°N.
Sweep: 2.0 Mc to 16.0 Mc in one minute.
Median values.

Table 35 (Supersedes Table 2, CRPL-F23)

Fairbanks, Alaska (64.9°N, 147.8°W)

June 1946

Time	h'F2	f'F2	h'F1	f'F1	h'F	f'F	h'F2	f'F2	h'F1	f'F1	h'F	f'F
00	330	4.6					2.0	4.8				2.7
01	338	4.6					2.2	5.5				2.7
02	350	5.0					2.0	3.9				2.7
03	368	5.0					2.3	5.6				2.6
04	400	5.2					2.5	5.3				2.6
05	422	5.1					2.8	5.3				2.5
06	420	5.4					3.0	5.3				2.6
07	465	5.5					3.2	4.8				2.4
08	480	5.5					3.2	3.5				2.5
09	435	5.6					3.2	3.4				2.6
10	478	5.6					3.3	3.3				2.4
11	495	5.5					3.3	3.6				2.5
12	470	5.6					3.3	3.5				2.5
13	440	5.6					3.3	3.5				2.6
14	440	5.8					3.3	3.3				2.6
15	455	5.8					3.3	3.3				2.5
16	400	5.8					3.2	3.3				2.7
17	370	5.8					3.0	3.0				2.7
18	328	5.8					2.7	3.3				2.8
19	315	5.6					2.5	4.7				2.8
20	280	5.6					2.1	3.6				2.8
21	280	5.3					1.9	4.4				2.9
22	300	4.6					1.6	4.0				2.8
23	320	4.8					3.9					2.8

Time: 150.0°N.
Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.
Median values.

Table 24

Washington, D. C. (39.0°N, 77.0°W)

July 1946

Time	h'F2	f'F2	h'F1	f'F1	h'F	f'F	h'F2	f'F2	h'F1	f'F1	h'F	f'F
00	280	5.7										2.7
01	280	5.1										2.3
02	280	4.7										2.7
03	280	4.3										2.4
04	300	3.7										2.7
05	280	3.9										2.6
06	280	4.7										2.9
07	353	5.0										2.7
08	400	5.6										2.8
09	430	6.0										2.6
10	415	(6.0)										2.7
11	430	6.1										2.6
12	480	6.1										2.6
13	(430)	(6.3)										2.6
14	410	6.7										2.6
15	400	6.6										2.7
16	360	6.7										2.7
17	350	6.8										2.8
18	310	7.0										2.8
19	270	6.7										2.8
20	250	6.9										2.9
21	260	(6.8)										(2.8)
22	270	(6.4)										(3.8)
23	280	(5.9)										(3.7)

Time: 75.0 W.
Sweep: 0.75 Mc to 11.5 Mc in 3.4 minutes, supplemented by
0.8 Mc to 14.0 Mc in two minutes.
Median values.

Table 26

Churchill, Canada (58.8°N, 94.2°W)

June 1946

Time	h'F2	f'F2	h'F1	f'F1	h'F	f'F	h'F2	f'F2	h'F1	f'F1	h'F	f'F
00	285	4.8										2.8
01	295	4.9										2.6
02	290	4.4										2.9
03	290	4.4										2.9
04	315	4.8										2.9
05	420	4.9										2.8
06	430	4.8										2.6
07	470	5.0										2.7
08	460	5.4										2.7
09	475	5.4										2.7
10	445	5.8										2.6
11	480	5.8										2.7
12	440	6.0										2.7
13	440	6.2										2.7
14	435	6.2										2.7
15	420	6.3										2.7
16	400	6.4										2.8
17	370	6.2										2.8
18	350	6.1										2.9
19	340	5.8										2.9
20	310	5.6										2.9
21	290	5.4										2.8
22	290	5.2										4.5
23	310	5.0										6.0

Time: 90.0°N.
Sweep: 2.0 Mc to 16.0 Mc in one minute.
Median values.

Table 27 (Supersedes Table 3, CRPL-P23)

Prince Rupert, Canada (47.50N, 130.20W) June 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	h'P	P'P	h'E	P'E
00	235	4.4					3.0			
01	260	4.0					3.0			
02	260	3.5					3.0			
03	270	3.3					3.0			
04	270	3.5	240				3.0			
05	300	4.4	220		110	1.9	2.9			
06	355	4.9	200		60	2.3	2.8			
07	260	5.1	190		90	2.7	2.8			
08	260	5.5	180		80	2.6	2.7			
09	240	5.5	170		40	3.1	3.4			
10	240	5.6	170		40	3.3	3.8			
11	410	5.8	170		40	3.4	3.9			
12	395	5.9	180		40	3.4	4.0			
13	400	5.9	180		40	3.4	4.0			
14	400	5.8	170		40	3.4	4.0			
15	390	5.9	180		40	3.4	4.0			
16	370	6.0	190		40	3.2	3.8			
17	350	5.8	190		40	3.1	2.9			
18	295	6.0	190		40	2.6	2.8			
19	240	6.0	200		40	2.6	2.9			
20	230	6.0	210		3.2	2.2	3.2			
21	220	6.0					3.4			
22	220	5.5					2.5			
23	220	5.7					3.1			

Time: 120.00°

Sweep: Manual operation.
Median values.

Table 29 (Supersedes Table 5, CRPL-P23)

St. John's, Newfoundland (47.60N, 52.70W) June 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	h'P	P'P	h'E	P'E
00	260	5.7					2.8			
01	260	5.5					3.0			
02	(260)	(4.4)					(3.0)			
03	(270)	(5.2)					(3.8)			
04	(260)	(4.5)					(3.3)			
05	240	4.3	205		85	2.5	2.6			
06	240	4.8	200		80	2.7	3.0			
07	280	5.4	190		40	3.0	3.3			
08	280	5.6	190		40	3.0	3.3			
09	280	5.7	200		40	3.0	3.3			
10	285	6.0	180		40	3.0	3.3			
11	325	6.2	180		40	3.0	3.3			
12	320	6.2	180		40	3.0	3.3			
13	325	6.5	180		40	3.0	3.3			
14	320	6.3	180		40	3.0	3.3			
15	310	6.6	180		40	3.0	3.3			
16	300	6.7	200		40	3.1	3.0			
17	300	7.1	200		40	3.0	3.1			
18	280	7.0	205		40	2.7	3.1			
19	250	7.3	205		100	2.5	3.5			
20	240	7.3					3.6			
21	230	7.3					3.6			
22	240	6.8					2.3			
23	230	6.4					3.0			

Time: 52.50°

Sweep: Manual operation.
Median values.

Table 3E (Supersedes Table 1, CRPL-P23)

St. John's, Canada (47.60N, 52.70W) June 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	h'P	P'P	h'E	P'E
00	270	4.2					2.9			
01	270	5.2					2.9			
02	240	5.1					2.9			
03	310	4.8					2.9			
04	310	5.2					2.9			
05	440	5.6					2.9			
06	355	6.0					2.9			
07	360	6.4					2.9			
08	520	5.7	205		4.8	3.4	2.9			
09	520	6.0	205		4.9	3.5	2.9			
10	335	6.8			5.2	3.5	2.9			
11	400	6.7			5.2	3.5	2.9			
12	355	6.4	200		5.0	3.6	2.9			
13	400	6.6	200		5.0	3.6	2.9			
14	470	6.2	205		5.0	3.6	2.9			
15	372	6.4	220		4.9	3.4	2.9			
16	350	6.3	220		4.8	3.0	2.9			
17	330	6.6	230		4.6	2.8	2.9			
18	270	6.6					2.9			
19	270	6.8					2.9			
20	270	7.0					2.9			
21	270	7.0					2.9			
22	270	7.0					2.9			
23	275	6.7					2.9			

Time: 120.00°

Sweep: Manual operation.
Median values.

Table 40 (Supersedes Table 6, CRPL-P23)

Ottawa, Canada (45.50N, 75.50W) June 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	h'P	P'P	h'E	P'E
00	300	4.7					2.8			
01	300	4.2					2.9			
02	310	3.6					2.9			
03	330	3.2					2.9			
04	300	3.2					3.0			
05	280	3.6					2.8			
06	270	4.5	230		4.0	2.8	2.8			
07	360	5.3	220		4.2	2.9	2.8			
08	410	5.3	220		4.6	3.2	2.6			
09	410	5.7	215		4.8	3.3	2.6			
10	415	5.6	210		5.0	3.4	2.6			
11	390	6.0	210		5.0	3.6	2.7			
12	430	6.1	210		5.0	3.6	2.7			
13	410	6.6	210		5.0	3.6	2.7			
14	420	6.5	220		5.1	3.5	2.7			
15	400	6.4	220		4.8	3.4	2.6			
16	360	6.7	215		4.8	3.2	2.6			
17	350	7.0	225		4.5	3.0	2.7			
18	330	7.1	235		4.1	2.8	2.7			
19	270	7.1	260		3.5	2.6	2.8			
20	260	7.2					2.8			
21	270	6.9					2.8			
22	270	6.2					2.8			
23	280	5.4					2.8			

Time: 75.50°

Sweep: Manual operation.
Median values.

Table 41

Christchurch, New Zealand (43.5°S, 172.6°E)

June 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs
00	260	5.4					2.6
01	270	5.3					2.2
02	280	5.4					2.9
03	285	5.0					2.6
04	280	5.6					2.8
05	280	2.5					2.1
06	280	2.4					2.0
07	240	3.0					2.6
08	220	6.0					2.9
09	220	7.6					2.4
10	230	7.7					2.8
11	230	8.0					2.6
12	260	8.1	220	4.0			2.9
13	240	8.3	210	4.3			3.0
14	240	8.8	230	4.3			2.9
15	230	8.1	230	4.0			2.8
16	220	7.7	220	3.5			2.4
17	220	6.6					1.8
18	220	5.3					3.0
19	240	4.9					2.1
20	260	4.0					1.8
21	260	3.7					2.8
22	270	3.7					2.8
23	280	3.5					2.6

Time: 172.5°E

Sweep: 1.0 Mc to 15.0 Mc. Automatic.

Median values.

Table 42 (Supersedes Table 6, CRPL-F23)

San Francisco, California (37.4°N, 122.2°W)

June 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs
00	290	5.3					3.4
01	300	5.0					2.4
02	300	4.2					2.2
03	300	4.7					2.5
04	300	4.3					2.6
05	280	4.2	295	2.9			2.8
06	340	5.2	240	3.8	120	2.4	3.0
07	360	5.8	220	4.4	110	2.9	3.8
08	380	6.5	220	4.8	100	3.2	3.9
09	385	6.5	200	4.9	100	3.6	4.0
10	400	6.6	200	5.1	100	3.6	4.0
11	400	7.0	200	5.1	100	3.6	4.2
12	400	7.2	200	5.0	100	3.7	4.2
13	380	6.8	205	5.0	100	3.7	4.1
14	380	7.1	220	5.0	100	3.7	4.0
15	380	7.0	220	4.9	100	3.7	3.9
16	355	6.6	220	4.7	100	3.4	3.9
17	320	6.6	230	4.5	100	3.1	3.7
18	300	6.4	240	4.0	115	2.5	3.6
19	260	7.0					3.8
20	250	6.7					3.4
21	260	6.6					3.6
22	280	6.0					3.6
23	300	5.4					3.6

Time: 120.0°E

Sweep: 0.2 Mc to 12.0 Mc in six minutes. Record centered on the hour.

Median values.

Boston: Massachusetts (42.4°N, 71.2°W)

June 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs
00	285	5.4					2.6
01	270	5.2					2.6
02	285	4.9					2.6
03	285	4.1					2.7
04	280	4.3					2.7
05	275	4.5					2.6
06	288	4.7					2.9
07	292	5.8					2.8
08	280	6.0					2.6
09	272	6.4					2.7
10	275	6.8					2.9
11	280	6.5					2.6
12	280	6.6					2.7
13	285	6.8					2.6
14	285	6.6					2.7
15	280	6.7					2.6
16	280	6.9					2.7
17	280	6.8					2.7
18	285	6.9					2.7
19	285	6.9					2.7
20	280	6.8					2.7
21	280	6.6					2.6
22	280	6.6					2.6
23	280	6.7					2.6

Time: 76.0°E

Sweep: 0.85 Mc to 13.75 Mc in one minute.

Median values.

Table 44

Tokyo, Japan (35.6°N, 139.6°E)

June 1946

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	fEs
00	(280)	7.8					5.1
01	270	8.1					4.3
02	260	7.1					3.8
03	260	6.8					3.5
04	260	6.6					2.9
05	230	6.9	230	2.2			1.9
06	230	7.5	200	2.5	100	3.0	3.2
07	260	7.9	(210)	4.4	100	3.0	3.2
08	245	7.8	205	4.6	100	3.4	3.1
09	295	7.4	(195)	5.1	100	3.7	3.1
10	300	7.4	190	5.3	100	3.9	2.9
11	330	7.8	185	5.4	100	4.0	3.0
12	340	7.9	185	5.5	100	4.0	3.0
13	320	8.4	190	5.4	100	3.9	3.1
14	300	8.6	175	5.2	100	3.9	3.1
15	290	8.2	(190)	5.0	100	3.7	3.1
16	285	8.0	225	5.0	100	3.4	3.2
17	275	8.1	(230)	4.4	100	3.0	3.2
18	260	8.1			100	2.4	3.2
19	260	8.1					4.6
20	260	7.7					6.3
21	280	7.6					5.8
22	280	7.8					6.1
23	290	7.6					5.4

Time: 135.0°E

Sweep: Lower limit of frequency, 2.0 Mc.

Median values.

Table 45 (Supersedes Table 9, CRPL-F23)

Baton Rouge, Louisiana (30.50°N, 91.20°W)

June 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	H ₁ F ₂	F ₂ F ₁	F ₂ F ₂	F ₂ F ₁
00	310	5.4				3.0	2.8
01	300	5.6				3.2	2.9
02	290	5.1				3.0	2.9
03	300	4.9					2.8
04	310	4.6					2.8
05	300	4.7					2.9
06	300	5.5					3.0
07	295	6.0					3.0
08	295	6.6					2.9
09	290	6.4					2.8
10	290	6.7					2.8
11	290	7.0					2.8
12	290	7.1					2.8
13	290	7.4					2.8
14	290	7.5					2.8
15	290	7.5					2.8
16	290	7.5					2.8
17	290	7.5					2.8
18	290	7.5					2.8
19	290	7.5					2.8
20	290	7.5					2.8
21	290	7.5					2.8
22	290	7.5					2.8
23	290	7.5					2.8

Time: 90.00°.

Sweep: 1.9 Mc to 9.8 Mc in three minutes, thirty seconds.
Median values.

Table 46

San Juan, Puerto Rico (18.40°N, 66.10°W)

June 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	H ₁ F ₂	F ₂ F ₁	F ₂ F ₂	F ₂ F ₁
00							2.7
01		7.4					2.8
02		7.6					2.8
03		7.4					2.8
04		7.0					2.8
05		6.4					2.8
06		6.0					2.8
07	300	6.0					2.9
08	350	7.5					2.8
09	350	7.8					2.6
10	385	8.8					2.6
11	390	9.2					2.5
12	400	9.9					2.5
13	385	10.5					2.6
14	380	10.6					2.6
15	380	10.8					2.7
16	360	10.4					2.6
17	330	10.4					2.8
18	320	9.5					2.8
19	300	8.2					2.8
20		8.7					2.7
21		8.8					2.7
22		8.5					2.8
23		8.9					2.7

Time: 60.00°.

Sweep: Record centered on the hour.
Median values.

Table 47 (Supersedes Table 11, CRPL-F23)

Trinidad, Brit. West Indies (10.60°N, 61.20°W)

June 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	H ₁ F ₂	F ₂ F ₁	F ₂ F ₂	F ₂ F ₁
00	255	9.3				3.1	3.1
01	255	9.5				3.0	3.0
02	260	8.2				3.0	3.0
03	260	7.5				3.1	3.1
04	250	7.0				3.1	3.1
05	250	6.5				3.0	3.0
06	250	6.6				3.2	3.2
07	240	7.2				3.4	3.4
08	250	7.3				3.1	3.1
09	330	8.4				3.4	3.4
10	350	8.8				3.7	3.7
11	400	9.8				4.8	4.8
12	370	10.6				5.0	5.0
13	340	11.2				5.0	5.0
14	340	11.4				5.1	5.1
15	330	11.6				5.1	5.1
16	310	11.4				5.4	5.4
17	295	10.7				4.7	4.7
18	270	10.3				4.2	4.2
19	280	10.2				4.2	4.2
20	300	10.4				3.1	3.1
21	285	10.5				2.4	2.4
22	270	10.4				2.4	2.4
23	260	10.4				2.0	2.0

Time: 60.00°.

Sweep: Initial operation.
Median values.

Table 48 (Supersedes Table 12, CRPL-F23)

Christmas I. (6.9°N, 157.3°W)

June 1946

Time	H ₁ F ₂	F ₂ F ₂	H ₁ F ₁	H ₁ F ₂	F ₂ F ₁	F ₂ F ₂	F ₂ F ₁
00	260	7.8				2.4	2.9
01	260	8.1				2.4	2.9
02	265	7.8				2.2	2.9
03	260	7.6				2.1	3.1
04	245	6.8				2.1	3.1
05	230	5.5				2.1	3.3
06	240	4.6				2.1	3.0
07	260	6.3				2.3	2.9
08	230	7.8				3.0	2.8
09	230	8.3				3.5	2.6
10	320	9.0				5.6	2.6
11	340	9.0				5.9	2.6
12	360	9.2				7.0	2.4
13	350	9.4				8.2	2.4
14	360	9.6				8.5	2.3
15	360	10.0				8.5	2.3
16	300	9.8				8.6	2.4
17	230	9.6				8.0	2.4
18	230	9.4				6.8	2.4
19	300	9.0				4.9	2.4
20	365	8.4				3.5	2.4
21	350	8.1				2.0	2.4
22	325	8.3				2.4	2.6
23	300	8.2				2.5	2.8

Time: 150.00°.

Sweep: 1.5 Mc to 13.0 Mc in one minute, thirty seconds.
Median values.

Table 42

Huanuco, Peru (12.0°S, 75.5°W)

June 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	P2-P1000
00	230	6.9					3.1
01	230	6.9					3.1
02	230	5.8					3.2
03	235	5.2					3.3
04	240	4.5					3.3
05	240	3.8					3.0
06	280	4.4			1.4	2.8	2.9
07	250	7.0			2.4	3.2	3.0
08	230	8.6			2.9	5.6	2.8
09	225	9.2	215	4.9			2.6
10	295	9.0	210	5.0			2.6
11	330	8.6	270	5.1			2.5
12	350	8.8	200	5.1			2.4
13	325	9.0	200	5.0			2.4
14	320	8.8	200	4.8			2.3
15	230	8.6	230	4.8			2.3
16	230	8.8			2.8	5.6	2.4
17	260	8.7			2.1	4.8	2.5
18	395	8.3			1.0		2.5
19	300	8.0					2.7
20	295	7.8					2.7
21	370	7.9					2.8
22	340	7.4					2.8
23	230	7.0					3.0

Time: 75.0°W.
Sweep: 15.0 Mc to 0.5 Mc in fifteen minutes.
Median values.

Table 43

Johannesburg, Union of South Africa (26.2°S, 28.0°E)

June 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	P2-P1000
00							2.8
01		2.8					2.8
02		3.0					2.2
03		2.6					2.6
04		3.0					2.2
05		2.8					2.1
06		2.8					2.1
07	220	5.3					2.8
08	220	7.4	200	3.9	100	2.6	2.8
09	220	6.3	210	4.7	100	3.0	3.1
10	240	9.2	210	4.5	100	3.3	2.8
11	240	8.9	200	4.5	100	3.4	3.6
12	280	9.0	200	4.5	100	3.5	3.7
13	300	9.3	200	4.5	100	3.5	3.2
14	300	9.3	210	4.4	100	3.4	3.2
15	250	9.5	210	4.1	100	3.1	3.2
16	220	9.3	220				3.4
17	210	8.6					3.9
18	300	6.4					3.0
19		3.8					2.8
20		3.4					2.8
21		3.0					2.7
22		2.1					2.3
23		2.9					2.1

Time: 30.0°E.
Sweep: 2.0 Mc to 15.0 Mc in eight seconds.
Median values.

Table 51 (Supersedes Table 5, IRPL-P22)

Mc Cas, Manitoba (54.0°N, 101.0°W)

May 1946*

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	P2-P1000
00							3.5
01	(3.0)	(4.2)					5.0
02	(3.0)	(3.5)					3.9
03	(3.5)	(3.7)					1.5
04	(3.0)						1.2
05	(2.0)	(3.6)					3.6
06	(2.5)	(4.4)	240	3.6	170	2.4	
07	(2.5)	(4.5)	215	2.9	100	2.7	
08	(2.5)	4.9	200	4.2	100	2.9	
09	(1.5)	4.9	200	4.3	100	3.1	
10	(4.0)	5.4	200	4.4	100	3.2	
11	(4.0)	(5.3)	200	4.6	100	3.3	
12	(5.0)	(5.3)	200	4.6	100	3.5	
13	(2.0)	(5.4)	200	4.7	100	3.2	
14	(3.0)	(6.0)	210	4.6	100	3.4	
15	3.5	5.6	210	4.5	100	3.3	
16	3.0	6.0	210	4.5	100	3.2	
17	3.5	6.0	210	4.3	110	2.8	
18	3.5	5.2	230	4.0	110	2.7	
19	3.0	5.7	240		110	2.4	2.6
20	2.0	5.6			115	2.6	2.1
21	(2.0)	(5.4)					4.0
22	(2.5)	(5.6)					4.0
23	(3.0)	(4.8)					6.0

Time: 50.0°W.
Sweep: 1.2 Mc to 16.0 Mc in approximately 2 minutes.
Median values.
*Data for approximately fifteen days around the middle of the month.

Table 52

Adak, Alaska (51.0°N, 176.0°W)

May 1946

Time	h'P2	P'P2	h'P1	P'P1	h'E	P'E	P2-P1000
00	(205)	5.3					2.6
01							(2.5)
02							(3.2)
03							(3.0)
04	(500)	(3.5)					(2.8)
05	480	(4.2)					(3.2)
06	(410)	(5.1)	240	(3.8)			3.1
07	(480)	(6.1)		(4.0)			(2.7)
08	(335)	(5.4)		(3.4)			(3.0)
09	(330)	(5.5)		(4.7)			(3.0)
10	(200)	(5.3)		(3.4)			(3.2)
11	(215)	(5.6)		(4.7)			(3.4)
12	(370)	(5.6)	(210)	(4.6)			(3.8)
13	(350)	(5.6)		(4.7)			(3.8)
14	(385)	(6.7)	(215)	(4.7)			(3.4)
15	(345)	(6.9)		(4.6)			(3.0)
16	(300)	(6.2)		(4.3)			(3.9)
17	(270)	6.3		(2.4)			(3.0)
18	(260)	(6.8)					(3.9)
19							(4.1)
20							(3.0)
21							
22							
23							

Time: 180.0°W.
Sweep: Manual operation.
Median values.

Table 53 (Supersedes Table 6, IRPL-F22)

May 1946

St. John's Newfoundland (47.60N, 52.70W)

Time	h:F2	f:F2	h:F1	f:F1	h:E	f:E	f:M	P2-M0000
00	260	5.4						2.9
01	270	5.0						3.1
02	270	4.8						3.0
03	270	4.4						3.0
04	260	4.1						3.1
05	240	4.3						3.2
06	220	4.9	10	3.2	110	2.3		3.3
07	210	4.8	15	3.8	90	2.5		3.4
08	200	5.0	20	4.0	90	2.8		3.4
09	210	5.6	20	4.6	50	3.0		3.2
10	240	6.1	10	4.8	20	3.1		3.5
11	250	6.2	15	4.9	90	3.1		3.3
12	250	6.4	15	5.0	80	3.2		3.3
13	260	6.5	15	5.0	90	3.1		3.5
14	285	6.6	190	4.9	90	3.0		3.1
15	275	6.8	190	4.7	90	2.9		3.2
16	260	7.1	200	4.7	90	2.9		3.2
17	260	7.2	200	4.4	90	2.7		3.2
18	260	7.2	10	2.6	95	2.6		3.2
19	250	7.3	15	2.9	100	2.4		3.1
20	235	7.4						3.1
21	225	6.8						3.1
22	245	6.1						3.1
23	250	5.7						3.1

Time: 52.50N.
Sweep: Manual operation.
Median values.

Table 54

May 1946

Chungking, China (29.40N, 106.80E)

Time	h:F2	f:F2	h:F1	f:F1	h:E	f:E	f:M	P2-M0000
00	240	9.0						4.4
01	245	8.0						3.8
02	240	7.4						3.4
03	240	6.7						3.0
04	250	6.2						2.8
05	270	6.0	3.4					2.9
06	240	7.6	240		100	2.9		3.0
07	255	8.3	225	4.4	100	3.1		3.1
08	280	9.2	220	5.0	100	3.5		2.9
09	290	10.0	240	5.4	100	3.8		2.7
10	320	10.8	220		100	4.2		2.8
11	320	11.9	210	5.2	100	4.3		2.7
12	325	13.0	220	5.4	90	4.4		2.7
13	320	13.5	210	5.3	100	4.2		2.8
14	290	14.0	220	5.2	100	4.1		2.9
15	285	14.5	240	5.0	90	3.9		2.8
16	275	13.8	220	4.8	90	3.5		2.9
17	260	12.4	215	4.7	90	3.2		3.0
18	240	12.2	210	4.4	80			3.2
19	220	10.5						4.1
20	220	9.2						5.2
21	245	9.2						3.0
22	260	8.8						4.8
23	245	8.3						5.9
								2.9
								4.6

Time: 105.00E
Sweep: 2.1 Mc to 16.1 Mc in fifteen minutes.
Median values.

Table 56 (Supersedes Table 14, CRPL-W33)

May 1946

Leyte, Philippine Is. (11.00N, 125.00E)

Time	h:F2	f:F2	h:F1	f:F1	h:E	f:E	f:M	P2-M0000
00		10.0						3.6
01		9.8						3.6
02		8.6						3.0
03		7.4						2.8
04		6.0						<2.6
05		4.8						3.1
06		4.2						<2.6
07		7.6						3.0
08		9.6	4.1					4.2
09		10.3	4.9					3.1
10		9.8	5.4					5.4
11		10.2	5.5					3.8
12		10.3	5.8					4.0
13		10.6	5.6					4.0
14		10.7	5.5					4.1
15		10.8	5.3					4.0
16		11.1	5.1					4.0
17		10.8	5.1					3.9
18		11.6	4.4					3.7
19		11.2						2.6
20		9.9						4.7
21		9.3						<4.1
22		9.3						3.1
23		9.4						2.8
								3.4

Time: 135.00E.
Sweep: Manual operation.
Median values.

Table 55 (Supersedes Table 11, IRPL-F22)

May 1946

Maul, Hawaii (20.80N, 156.50W)

Time	h:F2	f:F2	h:F1	f:F1	h:E	f:E	f:M	P2-M0000
00	295	7.8					3.1	2.8
01	280	7.6					3.4	2.8
02	270	7.4					3.0	2.8
03	280	6.8					2.6	2.9
04	300	5.9						2.8
05	290	5.5						2.8
06	265	5.6						2.8
07	250	6.7	240			2.6		2.9
08	270	8.0	350			3.2		2.6
09	300	9.0	220			3.3		2.5
10	350	10.1	220	5.2			4.2	2.8
11	360	10.9	220	5.4				2.6
12	360	11.6	225	5.4				2.6
13	380	12.1	220	5.3				2.6
14	350	12.3	230	5.2				2.7
15	335	12.6	225	5.1				2.8
16	310	13.1	230	5.0				2.9
17	290	12.9	250	4.6				2.9
18	260	11.8	240					3.0
19	250	11.4						3.0
20	250	9.9						3.0
21	270	8.9						3.4
22	270	8.4						3.2
23	300	8.0						3.0

Time: 160.00W.
Sweep: 2.3 Mc to 16.0 Mc in one minute.
Median values.

Table 57 (Supercedes Table 15, CRPL-F23)

May 1946

Hobart, Tasmania (1.9°N, 157.3°E)

Time	h ₁ F ₂	f _o F ₂	h'F ₁	f _o F ₁	h'F ₂	f _o F ₂	f ₂ -M3000
00	250	9.6				2.7	3.0
01	250	9.4				2.5	3.0
02	250	9.2				2.6	3.0
03	230	8.6				2.3	3.2
04	230	7.6				2.1	3.2
05	220	6.2				2.1	3.0
06	250	5.6				2.4	2.9
07	260	6.7			120	3.1	2.8
08	240	8.6			110	3.5	2.6
09	220	9.5					2.5
10	280	9.9	215				2.4
11	310	9.8	220	5.0			2.4
12	320	10.2	210	5.1			2.5
13	320	10.5	210	5.1			2.6
14	310	10.5	210	5.1			2.7
15	320	10.6	210	5.0			2.8
16	220	10.8	215	4.5			2.3
17	230	10.1			110	3.4	2.4
18	260	9.9				3.0	2.4
19	310	9.5				3.0	2.4
20	345	9.0				1.8	2.7
21	330	8.8				2.5	2.5
22	300	9.2				2.5	2.6
23	280	9.6				2.6	2.6

Time: 150.00E.

Sweep: 1.5 Mc to 13.0 Mc in one minute, thirty seconds.

Median values.

Table 58

May 1946

Brisbane, Australia (27.5°S, 153.0°E)

Time	h ₁ F ₂	f _o F ₂	h'F ₁	f _o F ₁	h'F ₂	f _o F ₂	f ₂ -M3000
00	250	4.3				2.7	3.9
01	240	4.3				3.1	3.0
02	250	4.4				3.3	3.0
03	270	4.6				3.4	3.0
04	260	4.2				3.4	3.1
05	265	3.7				3.5	3.2
06	250	4.3				3.5	3.5
07	220	7.5			120	2.7	3.5
08	220	9.0			110	3.1	3.4
09	230	10.2	202		105	3.3	3.4
10	240	10.3	210		110	3.4	3.3
11	240	10.2	200	5.0	105	3.4	3.2
12	240	10.2	200	5.0	110	3.4	3.2
13	240	10.0	200	5.0	110	3.4	3.5
14	240	10.5	205	4.7	110	3.3	3.2
15	240	10.4	205		120	3.0	3.2
16	235	8.8			120	2.7	3.2
17	240	8.5					3.2
18	240	8.5					3.4
19	240	8.4					3.0
20	240	5.1					3.1
21	240	5.2					3.0
22	255	5.0					3.1
23	270	4.5					2.9

Time: 150.00E.

Sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Median values.

Table 59

May 1946

Hobart, Tasmania (42.5°S, 147.4°E)

Time	h ₁ F ₂	f _o F ₂	h'F ₁	f _o F ₁	h'F ₂	f _o F ₂	f ₂ -M3000
00	(300)	4.0				2.6	3.1
01	(305)	4.2				3.6	3.0
02	315	4.0				4.7	3.2
03	(300)	4.4				2.8	3.2
04	(240)	4.4				2.4	3.0
05	(240)	3.8				2.6	3.3
06	(280)	3.6				2.6	3.3
07	250	4.8				2.6	3.5
08	(7.4)						3.4
09	(250)	(8.5)			110	3.0	3.4
10	270	8.8	250	4.6	110	3.2	3.3
11	(260)	(8.9)	230	4.5	110	3.4	3.3
12	265	8.8	230	4.5	105	3.4	3.2
13	265	9.0	230	4.6	105	3.4	3.2
14	270	9.2	250	4.6	110	3.4	3.3
15	250	9.2	245	3.9	105	3.0	3.3
16	250	9.0			100	2.5	3.2
17	240	8.0				2.7	3.1
18	240	6.4				3.1	2.6
19	260	5.7				2.8	3.2
20	265	4.8				2.7	3.2
21	285	4.5				2.7	3.1
22	300	4.2				2.7	3.2
23	300	4.0				2.8	3.2

Time: 150.00E.

Sweep: 1.6 Mc to 12.5 Mc in two minutes.

Median values.

Table 60

May 1946

Hobart, Tasmania (42.5°S, 147.4°E)

Time	h ₁ F ₂	f _o F ₂	h'F ₁	f _o F ₁	h'F ₂	f _o F ₂	f ₂ -M3000
00	270	3.2				3.2	3.1
01	280	3.2				3.0	3.0
02	275	2.8				3.4	3.2
03	275	2.4				2.8	3.2
04	260	2.6				3.0	3.2
05	245	2.4				3.0	3.3
06	245	2.3				3.2	3.3
07	250	3.5			(1.4)	3.1	3.3
08	225	6.1			(2.2)	2.8	3.5
09	222	7.5			(2.6)	2.9	3.5
10	245	8.6	225		2.9	3.4	3.4
11	250	8.8	210	4.4	3.0	3.4	3.3
12	250	9.7	210	4.4	3.1	3.4	3.3
13	250	9.8	210	4.4	3.1	3.5	3.2
14	250	10.2	225	4.0	3.0	3.5	3.2
15	230	9.6	220	3.8	2.6	3.4	3.3
16	225	9.5			2.3	3.0	3.3
17	220	8.5			(1.6)	2.8	3.2
18	220	6.9				2.6	3.1
19	225	5.5				2.5	3.2
20	240	4.5				2.5	3.2
21	250	3.6				2.6	3.1
22	250	3.4				2.6	3.2
23	260	3.2				2.6	3.2

Time: 150.00E.

Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

Median values.

[illegible]

Time: 10.00 a.m.
Sweep: 2.0 m. 5' . Pic in one minute.
Median value.

	DATE	TIME	FOY	E	POS	IRS	IR-MODNO
00	(11.0)				<2.5	(5.2)	
01	(11.4)				<2.5	(3.2)	
02	8.6				<2.5	3.2	
03					<2.5	1.1	
04	6.0				<2.5	1.1	
05	5.1				3.0	3.1	
06	4.5				3.8	3.0	
07	4.3				2.0	2.9	
08	1.7	4.2			2.1	1.7	
09	11.4	5.0			3.4	6.4	
10	11.0	5.2			3.7	7.0	
11	10.3	5.4			3.9	6.8	
12	10.2	5.6			4.0	6.6	
13	10.0	5.4			4.0	6.6	
14	11.3	5.4			4.0	6.6	
15	12.1	5.2			2.9	6.4	
16	12.6	5.0			3.6	5.6	
17	13.5	4.3			3.2	5.0	
18	13.1	3.3			2.3	5.5	
19	12.5				5.0	2.4	
20	10.6				<2.5	3.3	
21	(10.7)				<2.5	3.3	
22					<2.5		
23					<2.5		

Time: 135.00 hr.
Sweep: Manual operation.
Sighted values:

Table 61

Time	1172	1212	1251	1331	1411	1451	1531	1611	1651	1731	1811	1851	1931	2011	2091	2171	2251	2331	2411	2491	2571	2651	2731	2811	2891	2971	3051	3131	3211	3291	3371	3451	3531	3611	3691	3771	3851	3931	4011	4091	4171	4251	4331	4411	4491	4571	4651	4731	4811	4891	4971	5051	5131	5211	5291	5371	5451	5531	5611	5691	5771	5851	5931	6011	6091	6171	6251	6331	6411	6491	6571	6651	6731	6811	6891	6971	7051	7131	7211	7291	7371	7451	7531	7611	7691	7771	7851	7931	8011	8091	8171	8251	8331	8411	8491	8571	8651	8731	8811	8891	8971	9051	9131	9211	9291	9371	9451	9531	9611	9691	9771	9851	9931	10011	10091	10171	10251	10331	10411	10491	10571	10651	10731	10811	10891	10971	11051	11131	11211	11291	11371	11451	11531	11611	11691	11771	11851	11931	12011	12091	12171	12251	12331	12411	12491	12571	12651	12731	12811	12891	12971	13051	13131	13211	13291	13371	13451	13531	13611	13691	13771	13851	13931	14011	14091	14171	14251	14331	14411	14491	14571	14651	14731	14811	14891	14971	15051	15131	15211	15291	15371	15451	15531	15611	15691	15771	15851	15931	16011	16091	16171	16251	16331	16411	16491	16571	16651	16731	16811	16891	16971	17051	17131	17211	17291	17371	17451	17531	17611	17691	17771	17851	17931	18011	18091	18171	18251	18331	18411	18491	18571	18651	18731	18811	18891	18971	19051	19131	19211	19291	19371	19451	19531	19611	19691	19771	19851	19931	20011	20091	20171	20251	20331	20411	20491	20571	20651	20731	20811	20891	20971	21051	21131	21211	21291	21371	21451	21531	21611	21691	21771	21851	21931	22011	22091	22171	22251	22331	22411	22491	22571	22651	22731	22811	22891	22971	23051	23131	23211	23291	23371	23451	23531	23611	23691	23771	23851	23931	24011	24091	24171	24251	24331	24411	24491	24571	24651	24731	24811	24891	24971	25051	25131	25211	25291	25371	25451	25531	25611	25691	25771	25851	25931	26011	26091	26171	26251	26331	26411	26491	26571	26651	26731	26811	26891	26971	27051	27131	27211	27291	27371	27451	27531	27611	27691	27771	27851	27931	28011	28091	28171	28251	28331	28411	28491	28571	28651	28731	28811	28891	28971	29051	29131	29211	29291	29371	29451	29531	29611	29691	29771	29851	29931	30011	30091	30171	30251	30331	30411	30491	30571	30651	30731	30811	30891	30971	31051	31131	31211	31291	31371	31451	31531	31611	31691	31771	31851	31931	32011	32091	32171	32251	32331	32411	32491	32571	32651	32731	32811	32891	32971	33051	33131	33211	33291	33371	33451	33531	33611	33691	33771	33851	33931	34011	34091	34171	34251	34331	34411
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Time: 172.5^h.
Sweep: 1.0 Mc to 13.0 Mc. *Station: W.F.C.*
Median values.

Table 2 (continued)

Time	M/P2	M/P1	M/P2	M/P1	Time
00			(6.3)		10
01					11
02			(5.8)		12
03			(5.3)		13
04			(4.9)		14
05			(4.6)		15
06			(7.0)		16
07			8.1		17
08			(8.8)		18
09					19
10					20
11			(11.0)		21
12			(11.3)		22
13			11.0		23
14			(11.0)		
15			9.3		
16			9.0		
17			(9.0)		
18			8.5		
19			8.0		
20			(7.8)		
21					
22					
23			(6.3)		

Time: 120.0°. Median values.

Table 65

Singapore, Brit. Malaya (1.35 N, 103.0 E)
 (3rd sweep, 11th)

April 1945
 12-15000

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E
00		11.1				
01		10.3				
02		9.4				
03		8.4				
04		7.9				
05		7.1				
06		6.6				
07		8.8				
08		11.6				
09		12.0				
10		11.9				
11		11.0				
12		11.1				
13		11.9				
14		12.1				
15		12.0				
16		12.0				
17		12.0				
18		12.0				
19		11.8				
20		11.8				
21		11.9				
22		11.8				
23		11.5				

Time: 112.5°E.

Sweep: 1.1 Mc to 15.0 Mc in ten to fifteen minutes. Manual operation.
 Median values.

Table 67

Falkland Is. (61.7°S, 57.7°W)
 April 1946
 12-15000

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E
00		4.3				2.6
01		4.3				
02		4.2				2.6
03		3.9				
04		4.0				2.8
05		4.0				
06		4.3				3.0
07		6.5				
08		8.2				2.9
09		9.5				3.3
10		10.9				3.7
11		12.2				3.6
12		11.4				3.5
13		11.0				3.4
14		9.3				3.4
15		9.4				3.2
16		8.8				3.0
17		8.0				
18		7.2				3.3
19		5.5				
20		4.7				3.2
21		4.4				
22		4.3				2.7
23		4.1				

Time: 60.0°W.

Median values.
 * Data sheet labeled "Extent of E." See this issue, page 6, last paragraph.

Table 66

Brisbane, Australia (27.5°S, 153.0°E)
 April 1945
 12-15000

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E
00	270	6.3				3.0
01	270	6.2				3.0
02	260	5.8				3.0
03	240	5.4				3.2
04	260	4.5				3.1
05	270	4.3				3.1
06	240	5.3				3.1
07	210	8.5				3.4
08	220	9.4				3.4
09	210	11.0				3.3
10	230	11.5	210			3.5
11	245	11.5	300	4.8	110	3.7
12	240	11.4	200	5.0	108	3.5
13	255	11.6	200	4.8	108	3.6
14	225	11.9	200	4.8	110	3.5
15	230	11.5	200	4.6	110	3.4
16	230	11.0				3.2
17	220	10.2				3.1
18	230	8.6				3.2
19	230	7.4				3.1
20	260	7.2				3.0
21	255	7.0				3.0
22	260	6.3				3.0
23	270	6.3				2.9

Time: 150.0°E.

Sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.
 Median values.

Table 68

Peshawar, India (34.0°N, 71.5°E)
 March 1945
 12-15000

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E
00						
01						
02						
03						
04						
05						
06						
07	270	8.6				3.2
08	300	9.4				3.0
09	300	10.6				3.3
10	330	11.4				3.6
11	330	11.8				3.6
12	330	12.3				3.6
13	330	12.5				3.7
14	330	12.3				3.6
15	330	11.8				3.5
16	330	11.6				3.5
17	330	11.2				3.2
18	300	10.6				3.0
19	300	9.0				2.9
20	330	7.2				2.9
21	330	6.3				2.1
22	260	5.6				2.8
23	360	5.3				

Time: Local.

Sweep: Manual operation.
 M3000, average values; other columns, median values.
 * Height at 0.83 f'F2.

Table 69

Delhi, India (28.0°N, 77.1°E)										March 1946	
Time	° N 72	° N 72	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71
00	390	6.0									2.6
01	390	5.2									
02	390	5.2									
03	390	4.4									2.7
04	390	4.4									
05	390	4.6									
06	390	5.6									
07	390	8.2									2.7
08	390	9.8									
09	390	11.2									
10	390	12.2									
11	390	12.8									
12	390	13.1									2.6
13	390	(13.0)									
14	390	(13.0)									
15	390	12.9									
16	390	12.6									
17	390	12.6									
18	390	11.6									
19	390	12.0									
20											
21	390	6.8									
22	390	6.5									
23											

Time: Local.

Sweep: Manual operation.

M300, average values; other columns, median values.

° Height at 0.83 f'72.

Table 70

Rambly, India (19.0°N, 75.0°E)										March 1946	
Time	° N 72	° N 72	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71
00											2.6
01											
02											
03											
04											
05											
06											
07	300	4.6									
08	300	8.6									
09	300	11.0									2.1
10	390	13.7									
11	420	14.3									
12	420	14.8									
13	420	14.4									
14	420	14.2									
15	420	14.4									
16	405	14.6									2.6
17	420	14.3									
18	420	14.2									
19	420	14.1									
20	390	14.0									
21	375	13.6									
22	360	11.9									
23											

Time: Local.

Sweep: Manual operation.

M300, average values; other columns, median values.

° Height at 0.83 f'72.

Table 71

Madras, India (13.0°N, 80.3°E)										March 1946	
Time	° N 72	° N 72	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71
00											
01											
02											
03											
04											
05											
06											
07	300	2.3									
08	350	10.0									2.9
09	400	16.8									
10	420	11.9									
11	420	10.3									
12	420	10.5									2.6
13	450	10.8									
14	450	11.4									
15	420	11.8									
16	420	12.0									2.6
17	420	12.8									
18	420	13.4									
19	420	13.2									
20	390	11.6									2.7
21	360	11.8									
22	360	11.0									
23	360	10.5									

Time: Local.

Sweep: Manual operation.

M300, average values; other columns, median values.

° Height at 0.83 f'72.

Table 72

Singapore, Brit. Malaya (1.0°N, 103.0°E)										March 1946 (15th through 21st)	
Time	° N 72	° N 72	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71	h' 71
00											
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											

Time: 11.0°N.

Sweep: 1.1 Mc to 15.0 Mc in ten to fifteen minutes. Manual operation.

M300, average values; other columns, median values.

Table 71

Pondicherry, India (34.0°N, 71.5°E)

February 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f3s	f2-M3000
00								
01								
02								
03								
04								
05								
06								
07	270	6.5				2.2		
08	270	7.8				2.9		3.2
09	270	8.4				3.1		
10	300	9.6				3.4		
11	300	10.4				3.6		
12	300	10.3				3.6		3.1
13	300	9.3				3.5		
14	300	9.4				3.8		
15	300	9.2				3.7		
16	300	8.7				3.4		3.1
17	300	8.4				3.0		
18	300	7.5				2.7		
19	300	6.4						
20	300	6.1						3.0
21	300	4.0						
22	315	3.7						
23	330	3.4						

Time: Local.

Sweep: Manual operation.

M3000, average values; other columns, median values.

* Height at 0.83 f°F2.

Table 74

Erind, India (38.6°N, 77.3°E)

February 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f3s	f2-M3000
00	390	3.8						
01	390	3.8						
02	390	2.4						
03	390	3.6						
04	390	3.2						
05	390	2.1						
06	390	2.6						
07	348	5.8						
08	330	8.2						
09	360	9.0						
10	360	9.9						
11	360	10.6						
12	360	11.6						
13	360	11.0						
14	360	11.4						
15	360	10.7						
16	360	10.6						
17	360	10.3						
18	360	9.0						
19	390	7.5						
20								
21	390	3.7						
22	390	3.9						
23								

Time: Local.

Sweep: Manual operation.

* Height at 0.83 f°F2.

Table 76

Bombay, India (19.0°N, 73.0°E)

February 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f3s	f2-M3000
00	323	11.1						3.0
01	315	10.5						
02	300	9.0						
03	300	8.3						
04	270	5.5						3.2
05	280	5.0						
06	300	3.5						
07	300	7.1						
08	300	9.8						3.1
09	300	11.3						
10	330	12.6						
11	360	13.0						
12	390	13.4						2.7
13	390	13.9						
14	360	13.7						
15	360	13.9						
16	330	13.9						2.9
17	330	14.2						
18	330	13.9						
19	330	13.7						
20	330	13.1						2.9
21	330	13.2						
22	315	12.1						
23	338	11.4						

Time: Local.

Sweep: Manual operation.

M3000, average values; other columns, median values.

* Height at 0.83 f°F2.

Table 76

Madras, India (13.0°N, 80.2°E)

February 1946

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	f3s	f2-M3000
00								
01								
02								
03								
04								
05								
06								
07	300	7.0						
08	390	9.4						
09	420	10.2						
10	450	10.4						
11	490	10.8						
12	450	10.6						
13	450	10.7						
14	490	11.2						
15	490	11.4						
16	450	11.7						
17	450	11.5						
18	450	11.2						
19	460	10.8						
20	450	9.8						
21	450	9.7						
22	360	10.3						
23								

Time: Local.

Sweep: Manual operation.

* Height at 0.83 f°F2.

Records measured by: J.M.C.
J.L.S.

TABLE 78

IONOSPHERE DATA - 2

Washington, D.C.
National Bureau of Standards
(Institution)

Ionosphere Station

Hourly values of f^oF_2 in (M) for July 1946
Records measured by: J.M.G.
J.L.S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6.1	5.5	5.2	4.7	3.9	4.5	5.4	6.3	6.5	6.2	C	5.3	5.7	5.4	A	A	6.2	6.1	6.4	6.7	6.6	6.5	6.4	(6.6)
2	5.7	5.6	(5.6)	(4.9)	3.7	3.9	4.9	5.1	5.5	6.0	C	5.4	6.5	6.6	6.9	7.0	7.0	5.9	(7.2)	7.7	8.1	(7.8)	7.3	6.6
3	(6.0)	(5.8)	5.6	(5.2)	(4.5)	(3.9)	(4.0)	4.4	4.4	4.5	4.7	5.0	5.4	5.7	(5.7)	(6.1)	(6.0)	6.2	6.1	6.1	6.7	6.8	(6.2)	(5.8)
4	5.6	(5.1)	4.7	4.3	3.6	4.6	6.4	6.6	8.3	8.0	7.8	6.9	7.2	7.8	7.6	7.8	7.9	7.6	8.3	8.4	8.5	(7.7)	7.0	6.6
5	6.3	6.0	5.6	5.0	4.6	(4.8)	6.0	(7.0)	7.8	8.4	(8.9)	8.7	8.0	8.1	8.5	8.6	8.5	(8.3)	8.4	8.6	(7.7)	7.0	6.7	(6.4)
6	(5.9)	(5.5)	5.3	5.0	4.5	4.5	(5.7)	6.4	6.8	7.0	8.0	7.7	7.7	(7.8)	7.6	8.0	7.8	8.0	(8.1)	(8.1)	(7.9)	(7.8)	6.8	(5.9)
7	(6.0)	4.7	5.0	4.9	4.9	4.1	4.5	5.0	5.3	5.3	(6.1)	5.9	(5.8)	(5.7)	(5.9)	6.6	7.0	7.4	8.0	(8.4)	8.0	(7.6)	6.8	6.8
8	(5.8)	5.5	5.3	3.6	3.5	3.6	(4.1)	4.3	5.0	(5.0)	(4.9)	(5.5)	(5.1)	(5.2)	(5.5)	(5.7)	(5.8)	(6.1)	6.5	(6.2)	(6.0)	(6.4)	(6.7)	(6.0)
9	5.7	5.5	4.2	3.6	3.5	3.8	7.7	5.0	(5.1)	(5.4)	(5.3)	(5.4)	(5.2)	(5.4)	(5.8)	(5.4)	5.4	(5.8)	(5.9)	6.0	(6.0)	(6.1)	(5.9)	(5.8)
10	(5.8)	5.5	5.3	4.2	3.8	2.9	4.7	4.7	(5.3)	(6.5)	(6.7)	(6.3)	(6.0)	6.3	6.6	6.1	6.6	6.5	(6.4)	(6.1)	(6.2)	(6.2)	(6.1)	6.0
11	4.9	(4.4)	3.3	3.5	3.0	3.9	4.7	(5.7)	7.1	6.8	(6.2)	(6.8)	6.3	(6.5)	(6.2)	6.4	5.8	6.0	6.3	(6.3)	(5.9)	(5.5)	5.6	(5.2)
12	(5.3)	(5.2)	5.0	3.9	3.5	3.5	4.3	4.9	5.4	(5.8)	(6.2)	(5.7)	(6.2)	(6.0)	6.0	6.0	6.2	6.2	6.0	(6.2)	(6.2)	(6.2)	(6.0)	(5.7)
13	(5.3)	4.6	4.4	3.9	3.6	4.2	4.9	(5.0)	(5.9)	(5.7)	(5.9)	(5.7)	(5.4)	(6.0)	6.0	5.2	(5.4)	(5.9)	5.6	(5.9)	(5.8)	(6.2)	(6.0)	(5.6)
14	4.6	4.3	4.4	4.2	3.9	4.0	4.6	4.9	(5.5)	5.8	6.0	6.2	(6.3)	(5.8)	6.2	6.0	6.0	C	C	C	C	C	C	C
15	C	C	C	C	C	C	C	C	C	6.6	6.6	6.5	6.2	6.9	7.6	7.1	7.6	7.2	8.0	8.0	7.6	7.4	(7.2)	7.0
16	6.6	5.7	4.8	(4.7)	3.7	3.6	4.5	5.2	6.0	6.0	6.0	6.6	6.6	6.9	7.6	6.8	7.0	7.2	7.2	7.7	7.1	(6.4)	(5.8)	5.6
17	(5.0)	(5.0)	(4.9)	(3.6)	3.5	4.0	4.7	5.0	(5.8)	6.0	(5.9)	(5.6)	(5.6)	(4.9)	6.0	6.6	C	C	C	C	(6.4)	(7.2)	(5.9)	7.0
18	6.6	(5.3)	4.3	(2.5)	(2.1)	3.2	3.6	4.0	4.3	4.5	4.6	4.7	(4.8)	(4.9)	4.8	4.9	(5.1)	(4.3)	5.2	4.8	5.4	(5.6)	(5.4)	4.3
19	(3.5)	3.4	3.3	(2.4)	(2.3)	3.6	5.4	5.2	5.3	5.2	(5.6)	C	A	A	B	C	B	(6.4)	6.6	6.7	(7.0)	(6.5)	(6.4)	(5.8)
20	5.3	4.9	4.7	4.4	4.3	4.5	5.0	5.4	(5.7)	(5.6)	(6.0)	B	B	B	B	C	6.7	(7.0)	7.2	7.0	6.9	(6.4)	(6.5)	(5.6)
21	(5.4)	4.6	5.0	4.6	4.2	4.3	5.0	5.6	(6.0)	6.0	(6.3)	(6.1)	(6.0)	(6.2)	6.5	6.6	6.7	(7.3)	7.0	7.6	(7.7)	(6.0)	(7.0)	(5.0)
22	4.7	4.3	4.2	3.5	C	C	C	C	C	5.4	(5.6)	(5.8)	(6.2)	(6.3)	(6.3)	6.4	6.7	6.8	7.0	6.6	6.9	(6.5)	6.0	(5.8)
23	5.7	5.4	5.0	4.5	4.5	(4.5)	(6.2)	7.1	(8.2)	9.0	8.7	8.9	8.6	8.8	8.6	8.8	8.7	8.9	9.0	(8.8)	(8.5)	C	C	C
24	C	C	C	C	C	C	C	C	C	7.6	(7.6)	8.0	8.0	8.0	B	B	B	7.6	8.0	7.7	7.9	(7.8)	6.9	(6.2)
25	6.0	5.4	5.0	(5.1)	(4.8)	(4.5)	4.9	(4.7)	5.7	(5.9)	(6.0)	6.1	6.6	(6.7)	6.8	(6.3)	7.2	8.0	8.0	(9.6)	B	B	B	B
26	B	B	B	B	B	2.8	(3.8)	(3.8)	(4.9)	(4.7)	B	6.8	7.1	6.8	(6.7)	(6.0)	6.1	6.2	5.9	5.4	5.3	(4.8)	4.3	(3.8)
27	3.3	(2.8)	2.5	2.3	(2.1)	(3.2)	5.0	5.5	6.1	6.2	6.6	6.7	6.4	7.0	7.0	(7.2)	7.5	7.5	8.1	8.0	7.8	(7.3)	6.9	6.1
28	(5.8)	4.9	3.5	(2.4)	(2.3)	3.2	4.3	(4.7)	5.0	(5.6)	C	C	(5.2)	C	7.0	6.8	6.9	6.3	6.5	6.7	5.8	(6.5)	(6.2)	6.0
29	5.0	4.4	3.7	2.8	C	C	C	C	C	6.0	(5.3)	(5.3)	(5.2)	6.6	7.2	6.9	6.6	6.5	6.7	6.6	C	C	C	C
30	C	C	C	C	C	C	C	C	C	8.0	7.0	7.4	8.4	8.7	8.6	8.6	8.4	8.2	8.6	8.6	(8.2)	7.6	(7.2)	6.8
31	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sum	5.7	5.1	4.7	4.2	3.7	3.9	4.7	5.0	5.6	6.0	6.1	6.1	6.1	6.3	6.7	6.6	6.7	6.8	7.2	7.2	6.9	(6.5)	(6.4)	(5.9)
Count	27	27	27	27	25	26	26	26	26	31	27	27	28	27	27	28	28	29	29	29	29	27	27	27

TABLE 79

IONOSPHERE DATA - 3

Washington, D. C.

Ionosphere Station

National Bureau of Standards

Hourly values of f^oF_2 in { } for

July 1946

Records maintained by J. M. C.
J. L. S.

TIME: 75°W MERIDIAN

Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	
1	(6.0) ³	(5.5) ³	4.8	4.2	3.7	5.0	[5.8] ^A	6.9 ^A	(6.4) ^K	(6.1) ^K	C ^A	<(5.2) ^K	(5.8) ^K	A ^K	A ^K	A ^K	6.0 ^K	6.3 ^K	6.5	(6.7)	(6.6)	(6.5)	(6.1) ³	(5.9)	
2	(5.6) ³	(5.5) ³	5.5	4.0	3.8	4.3	5.1	5.0	(5.7) ^K	6.3	C	[6.6] ^C	(6.6) ^C	(6.6) ^C	6.9	(6.7)	6.8	7.0	7.5	(7.7)	(8.0) ³	(7.6) ³	6.9	(6.2)	
3	(6.4) ³	(5.7) ³	(5.5) ³	4.4	(4.2) ³	(4.0) ³	(4.5) ^K	<4.3 ^K	<4.5 ^K	<4.6 ^K	<4.8 ^K	<4.9 ^K	(5.7) ^K	5.7 ^K	5.8 ^K	6.0 ^K	6.0 ^K	6.2 ^K	6.2 ^K	6.3 ^K	6.8	6.3	(5.8) ³	5.6	
4	(5.2)	5.0	4.4	3.8 ^F	3.8 ^F	(5.3)	6.3	7.4	7.4	8.0	(6.9)	7.2	7.8	7.5	7.6	7.9	7.6	8.0	8.4	(8.2)	7.0	7.0	6.7	(6.3)	
5	6.2	5.7	5.4	4.3 ^F	(4.2) ³	5.6	6.7	(7.4)	(7.8) ³	8.5	(8.9)	7.9	8.0	8.2	8.5	8.4	(8.8)	8.1	(8.3)	(8.3)	(7.3)	6.8	6.6	(5.9) ³	
6	5.7	5.3	5.0	(4.5)	4.2	5.1	5.9	6.6	(6.8)	7.6	8.2	7.7	7.8	7.8	7.6	7.8	7.9	8.0	(8.3)	(8.0) ³	(8.1)	(7.2)	(6.1) ³	(6.1) ³	
7	(5.4) ^K	4.9 ^K	4.9 ^K	4.7 ^K	(4.5) ³	3.9 ^K	4.7 ^K	5.4 ^K	(5.0) ^K	(5.8) ^K	(5.4) ^K	6.0 ^K	(5.7) ^K	(5.8) ^K	(6.0) ^K	(6.0) ^K	7.1 ^K	7.9 ^K	(8.3) ^K	(7.7) ^K	7.9 ^K	6.8 ^K	(7.2) ^K	(6.4)	
8	5.7	4.6	(4.0)	3.4	3.2	3.9	4.5	(4.9)	(5.0) ^K	(4.8) ^K	(5.4) ^K	(5.1) ^K	(5.6) ^K	(5.6) ^K	(5.9) ^K	(5.9) ^K	6.2 ^K	6.4 ^K	(6.4) ^K	(6.3) ^K	(6.3) ^K	(6.5) ^K	(6.4)	5.5	
9	5.5	4.7	3.5 ^F	3.4	3.6	4.2	5.0	5.0	(5.2)	(5.3)	(5.4) ^K	(5.3) ^K	(5.3) ^K	(5.5) ^K	(5.5) ^K	5.3 ^K	(5.6) ^K	(5.6) ^K	(6.0) ^K	5.9 ^K	(6.2) ^K	(5.9) ^K	(5.8) ^K	(5.5)	
10	(5.5)	(4.6)	(4.1) ³	(3.5) ³	2.9	(3.7)	4.5	(4.8)	(6.0) ³	(5.7)	(6.1) ^A	(6.0) ^C	(6.0) ^C	6.4	(6.4) ^C	(6.4) ^C	6.6	(6.4) ³	(6.1)	(6.2)	(6.4) ³	(6.1) ³	(6.0) ³	(5.9) ³	
11	(5.7) ³	5.4	5.2	4.0	3.7	4.4	5.6	(6.3) ³	(6.7)	(7.2) ³	(6.0) ³	6.7	6.6	(6.4)	6.4	(5.9)	5.6	6.3	(6.2)	6.0	(5.5)	5.5	5.2	5.1	
12	4.7	(4.1) ³	3.8 ^F	(3.2) ³	3.0	3.8	4.8	(5.5)	(5.7)	(6.0) ^C	5.7	(6.2) ³	(6.1) ^C	(5.8)	(5.6)	(6.4)	(6.0) ³	6.4	6.6	(6.4) ³	(6.0) ³	(5.3)	(5.3)	(5.2)	
13	(5.4)	5.1	(4.6) ³	3.8 ^F	(3.7) ^F	4.1	5.0	5.2	5.3	(5.8)	(5.7)	(5.7) ³	6.0	(6.2) ³	(6.0) ^C	5.9	(6.2)	6.2	(6.2)	(6.2)	(6.3) ³	(5.5) ³	(5.5)	5.5	
14	(4.9) ³	4.6	4.2 ^F	3.9 ^F	3.5 ^F	4.0	5.2	(5.8) ³	5.9	(5.9)	5.8	(5.5) ^A	(5.8)	6.4	(6.2)	6.4	6.0	5.7	5.8	(5.9) ³	(6.2) ³	(5.8) ³	4.8 ^F	4.8 ^F	
15	4.5	4.4 ^F	4.5	4.0 ^F	3.7 ^F	4.2 ^F	4.8	5.3	(5.7) ^C	(5.7)	6.0	(6.0)	(5.9) ^C	(6.0) ³	6.0	6.0	6.0	6.0	C	C	C	C	C	C	
16	C	C	C	C	C	C	C	C	(6.4) ^C	6.6	6.6	(6.4) ^C	6.6	7.2	7.6	7.2	7.4	7.6	8.2	(7.8) ³	(7.4) ³	7.2	7.0	(6.4) ³	
17	(6.4) ³	5.0	4.7	4.0	3.3	(4.3)	4.7	5.8	(5.8) ³	(5.7)	(6.4)	(6.4) ³	6.6	6.8	6.9	6.8	7.0	7.2	7.4	7.5	6.6	(6.0) ³	5.9	5.0	
18	5.0 ^F	5.0	4.3 ^F	3.6 ^F	(3.6) ^F	4.3	4.7	(5.4) ³	(5.9) ^A	6.0	(5.8) ^A	5.6	5.4	6.0	6.6	C	C	C	C	C	(7.0) ^K	7.4 ^K	(6.4) ^K	(6.4) ^K	
19	(6.5) ^K	4.7 ^K	3.7 ^K	2.2 ^K	2.5 ^K	3.7 ^K	<3.9 ^K	<4.2 ^K	<4.5 ^K	<4.5 ^K	<4.7 ^K	<5.0 ^K	<4.8 ^K	<4.8 ^K	<4.5 ^K	5.0 ^K	5.1 ^K	5.3 ^K	5.2 ^K	5.2 ^K	5.4 ^K	[5.5] ^K	[4.8] ^K	[3.9] ^K	
20	3.5 ^K	(3.6) ^K	(3.2) ^K	(2.4) ^K	2.5 ^K	4.2 ^K	5.3 ^K	5.2 ^K	5.2 ^K	(5.8) ^K	(5.8) ^K	A ^K	A ^K	A ^K	B ^K	B ^K	(5.8) ^K	6.7 ^K	6.5 ^K	(6.2) ^K	7.0	6.6	6.3	5.3	
21	5.2	4.8	4.6	4.4	4.2	4.9	5.1	(5.5) ^C	(5.6) ³	6.0	B	B	B	B	(6.6)	(6.6)	6.8	7.2	7.1	6.8	(6.6) ³	(6.4) ³	(6.0) ³	(5.5)	
22	4.9	4.4	5.0	(4.5) ³	3.9	4.6	(5.4) ³	5.7	6.0	6.3	(6.2) ^C	(6.0) ^C	(6.1) ^C	[6.3] ^C	6.5	(6.7)	6.8	6.9	(7.2)	(7.8) ³	(7.4) ³	(7.0) ³	(6.1) ³	5.0	
23	4.6	4.4	3.9	C	C	C	C	C	C	C	[5.5] ^C	(6.0) ^C	(6.2) ^C	[6.3] ^C	[6.0] ^C	6.7	6.6	7.0	6.7	(6.2) ³	6.6	(6.2)	(5.8) ³	5.7	
24	(5.2)	(5.2)	5.5	4.6 ^F	4.2 ^F	(5.3)	7.0	(7.6)	8.9	9.0	(9.0) ³	8.7	8.7	9.0	8.8	8.9	8.8	9.0	(9.0)	(8.6)	C	C	C	C	
25	C	C	C	C	C	C	C	C	C	7.8	7.9 ^K	B ^K	B ^K	B ^K	B ^K	B ^K	7.7 ^K	7.5 ^K	(7.7) ^K	(7.7) ^K	7.9 ^K	(7.3) ^K	(6.2) ^K	6.2 ^K	
26	(5.9) ^K	(5.3) ^K	5.1 ^K	5.2 ^K	4.4 ^K	4.9 ^K	<4.7 ^K	5.2 ^K	(5.8) ^K	5.8 ^K	(6.0) ^K	6.4 ^K	6.4 ^K	6.9 ^K	(6.1) ^K	7.1 ^K	7.1 ^K	(8.9) ^K	(8.6) ^K	(9.2) ^K	B ^K	B ^K	B ^K	B ^K	
27	B ^K	B ^K	B ^K	B ^K	2.5 ^K	(3.3) ^K	<3.8 ^K	<4.1 ^K	<4.8 ^K	C ^K	(6.1) ^K	(7.1) ^K	(7.0) ^K	[6.8] ^K	[6.7] ^K	6.5 ^K	6.0 ^K	5.9 ^K	6.0 ^K	5.4 ^K	(4.8) ^K	(4.7) ^K	(4.4) ^K	3.5 ^K	
28	2.7 ^F	2.7 ^K	2.4 ^K	2.2 ^K	2.3 ^K	4.3 ^K	5.2	(5.7)	6.0	(6.4) ^C	6.6	6.6	6.6	6.7	(7.2)	7.4	7.4	7.9	7.6	8.3	(7.1)	7.0	(6.7)	(6.2)	5.7
29	5.2	3.6 ^F	(3.5) ³	2.3 ^F	(2.5)	3.9	4.6	(4.4) ^C	5.2	5.6	C	<5.0 ^C	6.6	6.8	6.8	6.8	6.5	6.4	6.7	5.9	(6.2) ³	(6.2)	(6.2)	(6.2)	5.7
30	(4.7) ^F	(4.1) ^F	3.4 ^F	2.4 ^F	C	C	C	C	C	6.0	<5.3 ^C	5.9	6.4	6.8	7.0	7.0	6.4	6.4	6.7	(6.6) ³	C	C	C	C	C
31	C	C	C	C	C	C	C	C	C	8.3	8.0	8.6 ^K	9.0	8.8	8.8	8.6	8.4	8.5	8.6	(8.4)	(7.4)	7.4	7.0	(6.9)	
Sum																									
Median	(5.4)	4.7	4.5	4.0	3.7	4.3	5.0	5.4	(5.8)	6.0	(6.0)	6.0	6.2	6.4	6.6	6.7	6.6	6.9	6.7	(6.8)	(6.6)	(6.5)	(6.1)	(5.7)	(5.7)
Count	27	27	27	26	26	26	26	26	26	30	27	26	28	27	28	27	30	29	29	30	27	27	27	27	27

TABLE 80

IONOSPHERE DATA - 4

(Location) Washington, D.C. Ionosphere Station(Institution) National Bureau Of StandardsHourly values of $h'F_1$ in mi for July 1946 (month)Received by U.S. Army J.M.C.
J.L.S.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							(230)	A	A	A	200 ^N	200 ^N	(240) ^N	A	A	A	A	A	A	A				
2							(230) ^N	(240) ^N	230	(230) ^N	(220)	200	220	210	210	210	200 ^N	210 ^N	220 ^N	A				
3						300	(230) ^N	230	200 ^N	170 ^N	210 ^N	200 ^N	200 ^N	200 ^N	230 ^N	230 ^N	210 ^N	220 ^N	240 ^N	A				
4							(240)	240	230	220	200	(200) ^N	(200) ^N	(200) ^N	210	210	210 ^N	220 ^N	230					
5							230	220	200	210	220 ^N	230	200 ^N	200 ^N	A	A	A	A	A					
6							230 ^N	240 ^N	210 ^N	200 ^N	210 ^N	190 ^N	(210) ^N	220 ^N	(240) ^N	240 ^N	220 ^N	230 ^N	230 ^N					
7							(220)	230	(240) ^N	210 ^N	(200) ^N	200 ^N	200 ^N	(200) ^N	230 ^N	220 ^N	A	A	A					
8							A	230	200 ^N	C	C	C	(210) ^N	210 ^N	220 ^N	220 ^N	(240) ^N	A	A					
9							250	230	210	(230)	(210) ^N	200 ^N	(210)	200	210	(220) ^N	A	A	(240)	240				
10							(230) ^N	(220) ^N	190 ^N	200 ^N	230	220 ^N	210	(200)	220	A	A	250	A					
11							240	(230) ^N	220	210	200	200	220	(220) ^N	220	210	210	250	230					
12							(240)	210	230	220	210	210 ^N	(230)	(220)	210	210	210	220	220	240				
13							210	250	220	210 ^N	220	200	(220) ^N	220	(230) ^N	230	A	A	A	A				
14							C	C	C	210	(180)	150 ^N	(220) ^N	(220) ^N	220	(200) ^N	210	C	C					
15							230	230	220	210	210	200	200	(210) ^N	210	210	220	230	230					
16							A	A	A	A	A	190	200	220	(220) ^N	230 ^N	C	C	C					
17							260 ^N	230 ^N	230 ^N	230 ^N	220 ^N	200 ^N	(250) ^N	(230) ^N	230 ^N	(230) ^N	(240) ^N	320 ^N	320 ^N					
18							230 ^N	220 ^N	220 ^N	(220) ^N	200 ^N	A	A	A	A	B	B	(220) ^N	A					
19							230	220	220	(210)	190	B	B	B	B	C	220	(230) ^N	A					
20							240	(220) ^N	(230) ^N	230 ^N	(210) ^N	220	210	(210) ^N	220	(250)	240	(220) ^N	240					
21							C	C	C	210	(220) ^N	210	210	(220) ^N	(230) ^N	240	230	230	230					
22							240	220	(210) ^N	230	(220) ^N	190 ^N	220	(220)	210	(220) ^N	220	220	230					
23							C	C	C	210 ^N	(230) ^N	A	A	B	B	B	B	B	B					
24							240 ^N	230 ^N	220 ^N	B	A	A	(270) ^N	(260) ^N	(230) ^N	(220) ^N	250 ^N	(250) ^N	B					
25							290 ^N	(280) ^N	250 ^N	(230) ^N	(240) ^N	(240) ^N	(260) ^N	230 ^N	B	B	(220) ^N	(260) ^N	A					
26								220	210	(230) ^N	220	(240)	(230) ^N	220	(230) ^N	230	(230) ^N	(230) ^N	(240)					
27								240	210	230	190 ^N	(220) ^N	(210)	(210)	230	230	(230) ^N	(230) ^N	240					
28							C	C	C	B	B	(230) ^N	210	210	200 ^N	(210) ^N	(210) ^N	(210) ^N	220					
29							C	C	C	210	220	(210)	(200) ^N	230	(220)	220	230	230	250					
30																								
31																								
Sum																								
Median							230	230	220	210	210	200	(210)	(220)	220	220	220	225	230					
Count							22	23	24	26	27	27	28	27	25	24	22	22	19					

TABLE 81
IONOSPHERE DATA-5

Washington, D.C. Ionosphere Station

National Bureau Of Standards
(Institution)

July 1966
1400 hours
f^oF₂ (MUF)
M3000 (M3000)

Observed measured by J. M. G.
J. L. S.

TIME: 730 W. MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							L	A ^K	(4.8) ^M	(4.9) ^M	(5.2) ^M	(5.3) ^M	(5.2) ^M	(5.1) ^M	A ^K	A ^K	4.8 ^M	(4.6) ^M	L	L				
2							3.9	4.3	4.6	(5.0)	(5.1)	(5.2)	5.3	5.3	5.1	5.0	4.9 ^M	4.9 ^M	L ^M	L				
3						L	(3.5) ^M	4.0 ^M	4.4 ^M	4.5 ^M	4.7 ^M	5.0 ^M	5.0 ^M	5.0 ^M	5.0 ^M	4.9 ^M	4.7 ^M	(4.4) ^M	L ^M	L ^M				
4						L	L	L	5.0	5.3	5.3	(5.2)	(5.3)	5.1	(5.1)	5.0	(4.8)	(4.7)	(4.0)					
5						L	L	L	(4.4)	5.0	5.1 ^M	(5.2)	5.2 ^M	(5.1)	5.2	(5.1)	4.8	L	A					
6						L	L	L	(4.4)	4.9	(5.0)	(5.3) ^M	(5.3) ^M	(5.3) ^M	(5.4) ^M	(5.3)	5.0 ^M	L	L					
7						3.7 ^K	(4.0) ^M	4.4 ^M	4.7 ^M	4.8 ^M	4.9 ^M	4.9 ^M	(5.0) ^M	5.0 ^M	(5.0) ^M	4.8 ^M	4.5 ^M	4.4 ^M	4.0 ^M					
8						L	(4.2)	(4.3)	(4.6)	4.6 ^M	4.8 ^M	4.7 ^M	4.9 ^M	(4.9) ^M	5.0 ^M	(4.9) ^M	4.8 ^M	A ^K	L ^M					
9						(3.8)	(4.2)	(4.2)	(4.6)	(4.6)	(4.9) ^M	(4.9) ^M	(4.9) ^M	(5.0) ^M	(4.9) ^M	(4.8) ^M	(4.7) ^M	(4.4) ^M	(3.9) ^M					
10						3.7	4.2	4.2	4.6	4.8	5.0	5.0 ^M	(5.1)	(5.1)	5.0	5.0	[4.8] ^M	(4.5)	L	L				
11						L	4.4	4.4	(4.7)	5.1	5.2	5.3 ^M	5.2	5.0	5.0	4.8	(4.8)	(4.5)	A					
12						L	4.2	4.2	4.7	4.9	4.9	5.0	5.0	5.0	5.0	4.9	(4.4)	L						
13						L	4.3	4.3	4.6	4.8	5.1	5.0	5.0	5.1	5.0	4.9	4.8	4.7	L	L				
14						L	(4.5)	5.3 ^M	5.3 ^M	4.9 ^M	(4.9) ^M	(5.0)	(4.9)	5.0	5.0	5.0	[4.6] ^M	(4.3) ^M	(4.0)	A				
15						L	(4.2)	4.5	(4.7)	(4.7)	4.9	5.0	5.0	5.1	5.0	5.0	4.8	C	C					
16						C	C	C	C	(4.9)	(5.1)	(5.1) ^M	5.2	5.1	5.0	5.0	4.9	(4.8)	(4.0)					
17						L	4.2	4.2	4.6	4.9	5.0	5.1	5.2	5.2	5.2	5.1	4.9	(4.4)	L ^M					
18						3.6 ^K	4.0 ^M	4.3 ^M	4.5 ^M	4.6 ^M	(4.7) ^M	(4.7) ^M	(4.8) ^M	(4.9) ^M	4.8 ^M	(4.4) ^M	(4.3) ^M	(3.0) ^M	C ^K					
19						(3.8) ^M	(4.4) ^M	(4.6) ^M	4.7 ^M	5.0 ^M	5.0 ^M	5.0 ^M	A ^K	A ^K	B ^K	(5.0) ^M	(4.7) ^M	(4.5) ^M	A ^K					
20						L	L	L	(4.7)	5.0	(5.0)	B	B	B	B	[5.2] ^C	4.9	[4.3] ^M	L					
21						L	(4.4) ^M	4.7	5.0 ^M	5.2	5.2	5.2	5.1	[5.1] ^C	5.1	5.0	4.8	4.5	L					
22						C	C	C	C	4.8	5.0	5.1	5.2	[5.1] ^M	5.0	5.0	(5.0)	4.7	L					
23						L	L	L	(5.4)	5.3	[5.3] ^M	(5.5) ^M	5.4	(5.5)	(5.5)	(5.5)	[4.0] ^M	L	L					
24						C	C	C	C	L ^M	(5.6) ^M	5.5 ^M	B ^K	B ^K	B ^K	B ^K	B ^K	B ^K	B ^K					
25						L ^K	4.3 ^K	4.7 ^K	5.0 ^K	5.0 ^K	5.1 ^K	5.3	(5.2) ^M	(5.2) ^M	(5.2) ^M	4.8 ^M	4.8 ^M	4.6 ^M	[4.0] ^M	L				
26						L ^K	3.8 ^K	4.3 ^K	4.7 ^K	5.0 ^K	5.1 ^K	5.3	5.1 ^K	5.0 ^K	[4.9] ^M	[4.9] ^M	(4.7) ^M	[4.7] ^M	(4.0) ^M					
27									5.0	5.1	(5.1)	5.2	[5.5] ^C	(5.4)	(5.3)	(5.2)	(5.1)	(4.7)	L					
28									4.7	4.5	4.8	5.1 ^M	5.1	5.2	5.1	5.0	5.0	4.6	L					
29						C	C	C	C	5.0	5.3	5.3	5.2	5.1	5.3 ^M	(5.2) ^M	5.2	4.5 ^M	L					
30						C	C	C	C	C	[5.3] ^C	(5.5)	(5.6)	5.3	(5.3)	5.2	5.2	[4.9] ^M	L					
31																								
Median						3.7	4.3	4.6	4.9	5.0	5.1	5.2	5.1	5.1	5.0	5.0	4.8	(4.5)	(4.0)					
Count						7	7	20	25	28	30	30	28	28	27	29	29	23	7					

TABLE 82

IONOSPHERE DATA- 6

Washington, D.C. Ionosphere Station

(Location)
National Bureau of Standards
(Institution)

Hourly values of f^oE in μ for July 1946
(Month)

Records measured by: J. H. C.
J. L. S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1						110	110	110	110	110	100	110	100	110	110	110	110	110	110	110				
2							110	110	110	110	110	110	110	110	110	110	110	110	110	110				
3						120	100	110	100	110	110	100	100	100	110	110	110	110	110	110				
4						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
5						110	110	110	110	100	100	110	110	110	110	110	110	110	110	110				
6						120	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
7						110	110	110	110	110	110	110	110	110	110	110	110	110	110	120				
8						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
9						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
10						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
11						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
12						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
13						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
14						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
15						120	120	110	110	110	110	110	110	110	110	110	110	110	110	110				
16						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
17						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
18						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
19						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
20						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
21						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
22						120	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
23						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
24						120	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
25						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
26						120	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
27						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
28						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
29						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
30						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
31						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
Sum																								
Median						110	110	110	110	110	110	110	110	110	110	110	110	110	110	110				
Count						9	24	26	26	27	27	26	27	28	29	28	28	27	28	27				

TABLE 83

IONOSPHERE DATA - 7

Washington, D.C. Ionosphere Station

National Bureau Of Standards
(Institution)

Records of f_oF_2 for July 1966
(Month)

Records measured by: J. H. V.
J. L. S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	A	[2.4]A	[2.8]A	[3.2]A	[3.5]A	[3.0]A	[3.0]A	[3.8]A	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)	(3.8)
2		A	2.9	[3.0]A	(3.6)A	[3.0]A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A
3	1.6	(2.3)A	[3.0]A	(3.4)A	(3.6)A	[3.0]A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A
4	1.7	[2.5]A	2.9	[3.0]A	(3.6)A	[3.0]A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A
5	(1.6)	[2.3]A	(3.0)A	[3.0]A	(3.6)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
6	C	(2.3)A	(2.8)A	(3.3)A	(3.5)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
7		A	2.8	C	A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A
8	A	2.2	2.8	(3.1)A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
9		2.3	(3.0)A	(3.3)A	(3.7)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A
10		(2.2)A	[2.8]A	(3.2)A	(3.7)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A	(3.8)A
11		1.7	(3.5)A	[3.7]A	(3.6)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
12		2.3	(2.8)A	(3.2)A	(3.6)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
13		2.3	(2.8)A	(3.2)A	(3.6)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
14		1.6	2.0	[3.0]A	(3.2)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A	(3.3)A
15		C	C	C	A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A
16		3.4	(2.8)A	(3.2)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A
17	A	(2.4)A	(2.9)A	[3.3]A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
18		3.4A	(2.9)A	[3.3]A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
19		(2.2)A	[2.7]A	(3.2)A	(3.6)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
20	A	A	A	[3.3]A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
21		(2.2)A	[2.8]A	(3.2)A	(3.6)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
22		C	C	C	C	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A
23		2.2	[2.6]A	2.9	(3.0)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
24		C	C	C	C	A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A	(3.9)A
25	C	A	2.3A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
26	B	2.4A	2.9A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
27		C	[2.9]A	(3.2)A	(3.6)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
28	A	2.8	(3.0)A	(3.4)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
29		C	C	C	C	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A	(3.6)A
30		C	C	C	C	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A	(3.5)A
31		C	C	C	C	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A	(3.4)A
Sum																								
Median	1.6	(2.3)A	(2.8)A	(3.2)A	(3.5)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A	(3.7)A
Count	5	14	23	21	21	23	23	18	14	17	21	18	14	17	21	18	17	19	7	1				

Washington, D.C. Ionosphere station

National Bureau Of Standards
(Institution)

Hourly values of E_s in {Mo

July 1946

Records measured by: J. M. C.
J. L. S.

TIME: 75° W MERIDIAN

[illegible]

TABLE 85

IONOSPHERE DATA - 9

Washington, D.C.

Ionosphere Station

National Bureau of Standards

(Institution)

Sample values of F₂-M3000

Time (MST)

Records measured by: J. H. G.
J. L. S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1.8	1.8	1.9	1.8	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
10	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
11	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
12	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
13	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
14	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
15	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
16	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
17	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
18	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
19	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
20	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
21	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
22	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
23	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
24	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
25	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
26	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
27	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
28	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
29	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
30	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
31	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Sum																								
Median	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Count	27	26	27	26	25	26	26	25	23	30	18	24	24	20	24	26	27	26	27	29	29	26	27	27

TABLE 86
IONOSPHERE DATA-10

Washington, D. C. Ionosphere Station

National Bureau Of Standards
(Institution)

Hourly values of F2-M3000 for July 1946
(Month)

Records measured by: J. R. G.
W. L. S.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
1	2.8	2.9	2.8	2.7	2.7	2.7	2.8	(2.8) ^K	2.8 ^K	C ^K	C ^K	G ^K	(2.4) ^K	(2.6) ^K	A ^K	A ^K	2.7 ^K	2.6 ^K	2.7	2.8	2.8	2.8	2.6	(2.7)	(2.7)
2	2.7	2.6	(2.8)	A	(2.6) ^F	2.6	2.7	2.7	2.7	(2.9)	C	C	2.6	2.5	2.6	2.7	2.8	2.6	(2.7)	2.8	2.7	(2.8) ^J	(2.7)	2.7	
3	(2.6) ^J	(2.7)	2.6	(2.7)	(2.5)	(2.7) ^J	(2.5) ^K	2.5 ^K	G ^K	G ^K	G ^K	G ^K	2.4 ^K	2.6 ^K	C ^K	(3.0) ^K	(2.9) ^K	2.9 ^K	2.8 ^K	2.8 ^K	2.8	2.8	(2.8) ^J	(2.7)	
4	2.7	C	2.8	3.0 ^F	2.7 ^F	3.0	3.0	3.0	2.9	2.8	2.9	(3.0)	2.7	2.7	2.6	2.7	2.8	2.8	2.7	2.9	2.8	(2.8)	(2.6)	2.7	
5	2.8	2.8	2.8	2.9	2.8 ^F	(3.0)	3.1	C	2.9	2.7	(3.0) ^J	2.7	2.7	2.6	2.8	2.7	2.8	(2.7)	2.8	2.8	(2.9)	2.8	(2.8)	(2.8)	
6	(2.8) ^J	(2.8)	2.7	2.7	2.7	2.8 ^F	(2.9)	2.9	2.6	2.8	2.8	2.6	2.7	(2.8) ^J	2.7	2.8	2.7	2.8	(2.8)	(2.8)	(2.9)	2.8 ^K	(2.7) ^K	(2.7) ^K	
7	(2.7) ^K	2.5 ^K	2.6 ^K	2.5 ^K	(2.8) ^K	2.6 ^K	2.4 ^K	2.3 ^K	2.5 ^K	(2.7) ^K	(2.3) ^K	2.5 ^K	C ^K	C ^K	(2.5) ^K	2.5 ^K	2.5 ^K	2.7 ^K	2.7 ^K	(2.8) ^K	2.6 ^K	C ^K	2.5 ^K	2.7	
8	(2.6)	2.6	2.5	2.5	2.5	2.7	(2.7)	G	C ^K	(2.3) ^K	(2.8) ^K	(2.9) ^K	(2.4) ^K	(2.3) ^K	(2.6) ^K	(2.4) ^K	(2.7) ^K	(2.8) ^K	2.7 ^K	(2.9) ^K	(2.8) ^K	(2.7) ^K	(2.8) ^K	(2.7)	
9	2.7	3.0	(2.8)	2.7	2.6	2.7	2.6	2.7	C ^K	(2.5) ^K	C ^K	C ^K	(2.4) ^K	B ^K	(2.6) ^K	(2.5) ^K	2.4 ^K	(2.7) ^K	(2.8) ^K	2.8 ^K	(2.9) ^K	(2.7) ^K	(2.7) ^K	(2.7)	
10	(2.7)	(2.6)	(2.7)	(2.6)	(2.7) ^F	2.4	(2.2)	2.3	(2.4)	(2.8)	C	(2.9) ^J	(2.4)	2.6	2.7	2.5	2.7	2.8	(2.9)	2.8	(2.7)	(2.7) ^J	(2.7) ^J	2.6	
11	(2.8) ^J	(2.9)	2.8	2.8	2.5	2.6	2.6	(2.8) ^J	3.0	2.5	C	(2.5)	(2.7)	C	(2.8)	2.8	2.8	2.7	(2.9) ^J	(3.0) ^J	(2.9)	(2.8)	2.8	(2.8)	
12	2.7	(2.7) ^J	2.6	2.6 ^F	(2.8) ^F	2.8	2.8	(2.7)	(2.8)	(2.9)	(2.8)	(2.6) ^J	(2.7) ^J	C	C	(2.8)	2.8	(2.8)	2.8	2.9	2.9	(2.9) ^J	(2.8) ^J	(2.7)	
13	(2.8)	(2.8)	2.8 ^F	(2.8) ^F	(2.8) ^F	(3.0)	3.1	2.5	2.7	2.8	C	2.6	(2.6)	C	2.9	(2.7)	2.8	2.8	(3.0)	(3.0)	(3.0) ^J	2.8	(2.8)	(2.9) ^J	
14	(2.8)	2.8 ^F	2.9	3.0 ^F	2.7 ^F	3.0	3.0	(3.0) ^J	(2.5)	(2.8)	C	C	G	C	2.8	2.8	(3.0)	A	2.8	(2.8)	(2.8) ^J	(2.8)	(2.8)	(2.9)	
15	2.5 ^F	2.5 ^F	2.8	2.6 ^F	2.8 ^F	3.0	2.9	2.8	(2.8)	2.6	2.9	(3.0)	C	(2.7)	2.7	(3.0)	2.9	C	C	C	C	C	C	C	
16	C	C	C	C	C	C	C	C	C	3.1	2.7	2.8	2.5	2.6	2.7	2.8	2.8	2.8	2.8	2.8	2.9	2.8	(2.7)	2.6	
17	2.7	2.9	2.6	(2.8)	2.7	2.9	2.9	2.9	3.0	2.7	2.5	(2.8)	2.7	2.8	2.8	2.7	2.8	2.9	2.9	3.0	2.9	(2.8)	(2.8)	2.8	
18	(2.7)	2.7 ^F	(2.7)	(2.8) ^F	2.8 ^F	3.0	2.9	2.6	A	2.9	A	(2.3) ^J	G	(2.5)	2.5	2.7	C	C	C	C ^K	(2.9) ^K	(2.7) ^K	(2.7) ^K	2.7 ^K	
19	2.7 ^K	(2.8) ^K	2.5 ^K	(2.5) ^F	(2.5) ^F	2.9 ^K	G ^K	G ^K	G ^K	G ^K	G ^K	G ^K	G ^K	G ^K	G ^K	G ^K	A ^K	A ^K	2.7 ^K	2.9 ^K	2.8 ^K	(2.7) ^K	2.9 ^K	(2.8) ^K	
20	(2.6) ^J	2.8 ^K	2.8 ^K	(3.0) ^K	(2.7) ^K	2.9 ^K	3.0 ^K	2.8 ^K	3.0 ^K	2.4 ^K	(2.4) ^K	C ^K	A ^K	A ^K	B ^K	C ^K	B ^K	C ^K	2.8 ^K	2.8 ^K	2.8 ^K	(2.8) ^J	(2.8) ^J	(2.9)	
21	2.6	2.8	2.6	2.6	2.8	3.1	3.1	2.8	(2.8)	(2.4)	(2.7)	3	B	B	B	(2.7)	2.6	A	2.8	2.7	2.8	(2.7)	(2.8)	(2.9)	
22	(2.7)	(2.5)	2.7	(2.8)	2.7	3.0	2.7	2.8	(2.8) ^J	2.5	C	C	C	C	2.5	2.5	2.5	(2.6)	2.6	2.8	(2.8)	(2.8) ^J	(2.9)	(2.7)	
23	2.7	2.5	2.7	2.7	C	C	C	C	C	2.6	C	(2.3)	C	B	(2.6)	2.5	2.7	2.6	2.9	2.8	2.7	(2.8)	2.7	(2.7) ^J	
24	2.8	2.8	2.7	2.7 ^F	2.8	(3.0) ^F	(3.2)	3.1	(2.8)	2.9	2.7	2.7	2.7 ^H	2.8	2.7	2.7	2.8	2.8	2.9	(2.8) ^J	(2.8)	C	C	C	
25	C	C	C	C	C	C	C	C	C	3.1	(2.9) ^K	2.8 ^K	B ^K	B ^K	B ^K	B ^K	B ^K	2.7 ^K	2.8 ^K	2.8 ^K	2.7 ^K	(2.8) ^K	2.8 ^K	(2.7) ^K	
26	2.7 ^K	2.5 ^K	2.5 ^K	(2.6) ^K	(2.8) ^K	2.7 ^K	3.1 ^K	(2.6) ^K	2.6 ^K	(2.5) ^K	C ^K	2.8 ^K	2.5 ^K	2.5 ^K	2.6 ^K	C ^K	2.4 ^K	2.5 ^K	2.5 ^K	2.5 ^K	(2.7) ^K	B ^K	B ^K	B ^K	
27	B ^K	B ^K	B ^K	B ^K	B ^K	2.4 ^K	(2.7) ^K	G ^K	(2.7) ^K	G ^K	B ^K	2.5 ^K	2.7 ^K	2.8 ^K	B ^K	B ^K	2.7 ^K	2.8 ^K	2.8 ^K	3.0 ^K	2.8 ^K	(2.7) ^K	2.7 ^K	(2.7) ^K	
28	2.7 ^K	(2.7) ^K	2.6 ^K	2.6 ^K	(2.7) ^K	(2.9) ^K	3.1	3.0	3.0	2.6	2.7	2.9	2.4	2.7	2.6	(2.6)	2.7	2.7	2.9	2.8	2.9	(2.7)	2.6	2.7	
29	(2.7) ^J	(2.6)	2.5 ^F	(2.5) ^F	(2.5) ^F	(2.7) ^F	(2.9)	G	2.2	(2.5)	C	C	G	C	2.5	2.5	2.7	2.8	2.7	3.0	2.6	(2.7) ^J	(2.6)	2.6	
30	2.9 ^F	2.6 ^F	2.7 ^F	2.6 ^F	C	C	C	C	C	2.5	G	G	G	G	2.5	2.7	2.7	2.8	2.8	2.9	C	C	C	C	
31	C	C	C	C	C	C	C	C	C	2.6 ^H	2.7 ^H	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.9	2.8	(2.8)	2.7	(2.8)	2.7	
Sum																									
Median	2.7	2.7	2.7	2.7	2.7	2.8	2.9	2.7	2.8	2.6	2.7	2.6	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.8	(2.8)	(2.8)	(2.7)	
Count	27	26	27	26	25	26	26	26	23	30	18	24	24	20	24	26	27	28	29	29	28	26	27	27	

TABLE 87
IONOSPHERE DATA - II

Washington, D. C. Ionosphere Station

National Bureau of Standards
(Institution)

Daily values of F1-M3000₃₀₀₀

July 1945
(Month)

Report to be submitted by J. M. G.
1. 8.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1		A	A	A	A	A	A	A	A	(4.3) ^K	C	A	A	A	A	A	A	A	A	A				
2							A	4.1	4.0	4.3	A	(4.4) ^K	(4.9)	A	A	A	A	(4.2)	A	A				
3		4.0	(4.1) ^K	A	(4.2) ^K	(4.3) ^K	C	C	C	(4.3) ^K	C	C	(4.0) ^K	(4.5) ^K	(4.2) ^K	(4.3) ^K	C	A	4.3 ^K	A				
4		C	C	A	A	A	C	4.2	A	A	C	C	A	A	A	A	A	A	A	A				
5		C	A	(4.3)	C	(4.3)	(4.5)	(4.5)	(4.5)	(4.3)	4.4	(4.5)	(4.5)	(4.3)	4.4	(4.5)	A	A	A	A				
6			A	C	A	A	(4.3) ^K	(4.2) ^K	(4.2) ^K	(4.3) ^K	C	A	(4.0)	(4.5)	A	A	(4.3)	(4.2)	(4.2)	A	4.0 ^K			
7							A	4.1	C	A	4.3	A	A	C	(4.2) ^K	(4.1) ^K	A	A	A	A				
8							4.1	4.1	(4.3) ^K	C	C	C	A	A	A	4.5 ^K	C	A	A	A	3.6 ^K			
9							(3.8)	(4.0)	(4.1)	(4.1)	(4.4)	A	(4.3)	(4.3)	(4.3)	(4.4)	A	A	A	A	(3.7)			
10							(4.0)	A	(4.1)	C	C	C	(4.2)	(4.2)	B	B	A	C	A	A				
11						(3.6)	(3.4)	A	(4.5)	A	(4.2)	4.2	(4.2)	B	B	(4.1)	C	(4.1)	A	A	3.7			
12							4.0	(4.3)	4.4	(4.3)	A	(4.3)	(4.2)	A	(4.2)	(4.2)	4.3	(4.3)	(4.2)	(4.2)	3.2			
13							(4.1)	A	A	(4.3)	(4.6)	A	A	(4.3)	A	4.1	(4.1)	(4.2)	A	A				
14						4.5	(4.3)	A	(4.3)	A	C	(4.5)	4.2	(4.3)	A	A	4.3	C	C	C				
15							C	C	C	A	(4.3)	A	A	A	A	(4.1)	(4.3)	A	A	A				
16							(4.1)	(4.0)	(4.3)	(4.2)	(4.3)	(4.3)	A	A	(4.2)	4.2	4.3	4.3	4.2	(4.3)				
17						A	(4.1) ^K	A	A	A	A	(4.5)	A	C	A	(4.2)	C	C	C	C				
18						4.4 ^K	(4.3) ^K	C	C	C	C	(4.3) ^K	A	A	(4.3) ^K	4.1 ^K	4.2 ^K	4.2 ^K	4.2 ^K					
19						(4.2) ^K	A	(4.4) ^K	(4.4) ^K	A	A	A	A	A	A	B	B	C	A	A				
20						A	A	A	C	C	4.2	B	B	B	C	C	(4.1)	C	4.1					
21						(4.1)	A	A	C	(4.5)	C	A	C	C	(4.2)	(4.2)	(4.1)	C	(4.1)					
22							C	C	C	(4.2)	B	4.2	B	B	B	(4.3)	(4.1)	4.0	4.0	C				
23							4.0	A	4.2	(4.4)	A	(4.3)	(4.2)	C	A	4.0	(4.0)	(4.0)	(4.0)	(4.0)				
24							C	C	C	A	A	(4.5) ^K	B	B	B	B	B	B	B	B				
25						C	A	4.2 ^K	C	B	B	B	B	B	B	B	C	C	C	(4.3) ^K	B			
26						B	4.0 ^K	(4.1) ^K	C	B	B	B	B	B	B	B	C	C	C	4.1 ^K				
27							C	C	C	(4.1)	B	(4.3)	B	B	C	C	A	A	(4.1)	C				
28							A	(4.3)	(4.2)	A	C	C	C	B	(4.2)	(4.3)	C	C	4.1					
29							C	C	C	B	B	B	(4.2)	C	B	C	C	C	(4.2)					
30							C	C	C	(4.2)	B	C	C	C	C	(4.2)	(4.2)	(4.0)	3.8					
31							C	C	C	(4.2)	B	C	C	C	C	(4.2)	(4.2)	(4.2)	(4.0)					
Sum							(4.1)	(4.2)	(4.2)	(4.3)	(4.3)	(4.3)	(4.2)	(4.3)	(4.2)	(4.2)	(4.2)	(4.2)	4.1	15				
Median							4.1	4.2	4.2	4.3	4.3	4.3	4.2	4.3	4.2	4.2	4.2	4.2	4.1	4.1	4.0			
Count							16	13	13	14	9	15	11	7	10	18	12	11	15	7				

TABLE 88

IONOSPHERE DATA-12

Washington, D. C. Ionosphere Station

National Bureau of Standards

Records measured by: J. M. G.

J. L. S.

Hourly values of E-M1500 for JULY 196
(Month)

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1							L	A	A	A	3.7 ^K	3.5 ^N	(3.5) ^N	A ^K	A ^K	A ^K	3.3 ^N	(3.2) ^N	L	L				
2							3.1	3.4	3.5	A	(3.6)	(3.8)	3.4	3.5	3.8	3.6	3.6 ^N	LH	L					
3						L	(3.1) ^N	3.5	3.8 ^N	3.9 ^N	3.8 ^N	3.9 ^N	3.7 ^K	3.6 ^K	3.5 ^K	3.6 ^K	3.6 ^N	(3.5) ^N	L ^K	L ^K	L ^K			
4							L	L	9.3	3.6	3.7	C	(3.3)	3.9	(3.5)	3.6	(2.4)	(3.3)	(3.5)					
5							L	L	(3.6)	3.6	3.6 ^N	(3.6)	3.8 ^N	(3.6)	(3.6)	(3.6)	3.6	L	A					
6							L	(3.4)	3.4	(3.6)	3.3 ^N	(3.5) ^N	(3.5) ^N	C	(3.6) ^N	(3.4)	3.5 ^N	L	L					
7							3.1 ^K	(3.5) ^K	3.5	3.6 ^K	3.7 ^K	3.9 ^K	(3.4) ^K	3.6 ^K	(3.4) ^K	3.4 ^K	3.3 ^K	3.3 ^N	3.4 ^K					
8							L	(3.2)	C ^K	3.7 ^K	A ^K	3.9 ^K	3.9 ^K	(3.6) ^K	3.5 ^K	(3.5) ^K	3.3 ^K	A ^K	L ^K					
9							(3.2)	(3.4)	(3.5) ^K	C ^K	C ^K	C ^K	(3.7) ^K	B ^K	(3.7) ^K	(3.7) ^K	(3.4) ^K	(3.3) ^K	(3.4) ^N					
10							3.2	3.3	(3.5)	3.5	A	(4.0) ^N	(3.7)	(3.5)	(3.7)	(3.2)	A	(3.5)	L	L				
11							L	(3.7)	(3.5)	(3.4)	3.6	(3.2) ^N	3.9	(3.6)	3.6	(3.4)	A	(3.4)	A					
12							L	3.5	(3.5)	3.6	3.8	(3.7)	3.7	B	(3.7)	3.8	3.4	(3.3)	L					
13							L	3.5	3.5	3.5	3.5	3.7	3.5	3.5	3.6	3.6	3.3	3.3	L	L				
14							L	(3.4)	3.0 ^N	(3.6) ^N	(3.9)	(3.6)	A	3.5	3.5	3.6	A	A	(3.4)	A				
15							L	(3.6)	3.5	(3.5)	3.6	3.7	3.8	3.8	3.5	A	3.5	C	C					
16							C	C	C	(3.4)	(3.9)	(4.0) ^N	C	A	3.7	A	A	(3.2)	(3.5)					
17							L	3.5	3.6	3.7	3.7	3.8	3.9	(3.5)	3.7	3.5	3.6	(3.5)	LH					
18							(5.2)	A	A	A	A	3.8	(4.0)	3.6	3.4	3.5	C	C	C					
19							3.2 ^N	3.5 ^K	3.5 ^K	3.8 ^K	3.9 ^K	(4.0) ^K	(3.8) ^K	(3.6) ^K	3.8 ^K	A ^K	A ^K	(3.3) ^K	C ^K					
20							(3.5)	(3.6) ^K	(3.4) ^K	(3.8) ^K	3.8 ^K	A ^K	A ^K	A ^K	B ^K	B ^K	B ^K	C ^K	A ^K					
21							L	L	(3.4)	3.4	(3.7)	B	B	B	B	C	3.6	A	L					
22							L	(3.3) ^N	(3.4)	3.5 ^N	(3.3)	3.7	3.7	C	3.5	3.4	3.5	3.4	L					
23							C	C	C	3.6	A	3.7	3.7	B	B	3.4	(3.3)	3.2	L					
24							L	L	(3.4)	3.5	A	(3.6) ^N	3.7	(3.5)	(3.3)	(3.4) ^N	L	L	L					
25							C	C	C	LH	(3.4) ^K	(3.5) ^K	B ^K	B ^K	B ^K	B ^K	B ^K	B ^K	B ^K					
26							L ^K	3.5 ^K	3.6 ^K	3.1 ^K	(3.5) ^K	(3.6) ^K	(3.5) ^K	B ^K	A ^K	(3.6) ^K	3.2 ^N	3.2 ^N	L ^K	L ^K				
27							L ^K	3.3 ^K	3.4 ^K	(3.4) ^K	B ^K	(3.3) ^K	3.4 ^K	(3.5) ^K	B ^K	B ^K	C ^K	A ^K	(3.1) ^K					
28									3.5	3.6	(3.7)	3.8	C	(3.6)	(3.4)	(3.5)	(3.4)	(3.4)	L					
29							3.0	3.6	3.5	3.6 ^N	3.6	3.7	3.5	3.5	3.5	(3.4)	3.3	3.4	L					
30							C	C	C	B	(3.3)	B	3.6	3.8	(3.6) ^N	(3.2) ^N	(3.4)	(3.4) ^N	L					
31							C	C	C	C	C	(3.8)	(3.3)	3.7	(3.5)	3.5	3.3	L	L					
Sum																								
Median							3.2	3.4	3.5	3.6	3.7	3.7	3.7	3.6	3.6	3.5	3.4	3.3	(3.4)					
Count							7	10	15	14	23	26	15	20	24	23	21	18	L					

Table 89

Ionospheric Storminess, July 1946

Day	Ionosphere Characters*		Principal Storms		Geomagnetic Characters**	
	00-12 GCT	12-24 GCT	Beginning GCT	End GCT	00-12 GCT	12-24 GCT
July						
1	2	4	1200	2300	0	1
2	2	1			2	2
3	2	4	1100	-----/	3	2
4	1	3	-----	0100	1	1
5	1	3			1	1
6	2	3			1	1
7	3	4	0300	-----	4	3
8	2	4		0400	2	2
			1300	-----		
9	1	4	-----	0300	3	2
			1300	-----		
10	1	0	-----	0400	2	2
11	2	1			2	2
12	2	2			1	1
13	2	1			1	1
14	1	3			2	3
15	2	3			3	1
16	***	1			1	3
17	2	1			3	2
18	1	3			2	4
19	3	5	0000	-----	4	2
20	4	***	-----	-----	1	1
21	2	***	-----	0100	2	2
22	2	3			2	2
23	2	2			3	3
24	2	3			1	1
25	***	***	1500	-----	2	3
26	3	3	-----	-----	3	5
27	***	3	-----	-----	7	3
28	5	1	-----	1100	2	3
29	3	3			4	4
30	3	3			4	3
31	***	3			2	1

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

***No readable record. Users are referred to Table 78 for detailed explanation.

/Dashes indicate continuing storm.

Table 90

Sudden Ionosphere Disturbances Observed at Washington, D.C.

Day	GCT Beginning End	Location of Transmitters	Relative intensity at minimum *	Other Phenomena
July 4	1643 1750	Ohio, D.C., Mexico, Ontario, Surinam	0.1	
17	1921 2000	Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Surinam	0.01	
18	2309 2325	Ohio, D.C., Chile, Hawaii, Mexico, Ontario, Surinam	0.5	
19	1207 1230	D.C., England	0.1	
19	1619 1630	England	0.3	
19	1849 1935	Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Ontario	0.05	
19	2052 2130	Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Ontario, Surinam	0.05	
20	1046 1110	England	0.1	
20	1346 1415	England	0.1	
20	1623 1650	Ohio, D.C., England, Hawaii, Mexico	0.2	
20	1823 1850	Ohio, D.C., Chile, England, Hawaii, Mexico, New Brun- swick, Surinam	0.3	
20	2208 2230	Ohio, D.C., Chile, Mexico, Ontario, Surinam	0.2	
21	1243 1330	Ohio, D.C., England, Mexico	0.1	Terr. mag. pulse** 1239-1250
21	1505 1715	Ohio, D.C., Chile, Eng- land, Mexico, New Brun- swick, Ontario	0.0	Terr. mag. pulse** 1505-1510

Day	GCT Beginning End	Location of Transmitters	Relative intensity at minimum *	Other Phenomena
July 23	1438 1550	Ohio, D.C., Chile, England, Mexico, Ontario, Surinam	0.0	
23	1712 2040	Ohio, D.C., Chile, England, Mexico, Ontario, Surinam	0.1	
24	0312 0400	Barrett	0.02	
24	1344 1420	Ohio, D.C., Chile, Eng- land, Mexico, Ontario, Surinam	0.03	
24	2204 2335	Ohio, D.C., Hawaii, Mexico	0.3	
25	1509 ---	Ohio, D.C., Chile, Eng- land, Mexico, Ontario, Surinam	0.03	
25	1559 ---	Ohio, D.C., Chile, Eng- land, Mexico, Ontario, Surinam	0.0	
29	0039 0100	England	0.1	
29	2011 2040	England	0.1	
30	1556 1640	Ohio, D.C., Chile, Eng- land, Mexico, Ontario, Surinam	0.0	
30	2143 2210	Ohio, D.C., Chile, Hawaii, Mexico, Ontario, Surinam	0.05	

*Ratio of received field intensity during SID to average field intensity before and after, for station W8XAL, 6080 kilocycles, 600 kilometers distant, for all SID except the following: Station GLE, 1100 kilocycles, received in New York, 5340 kilometers distant, was used for the SID on July 19 at 1207 and at 1619, on July 20 at 1046 and at 1346, see column 23. Station KQF, 12495 kilocycles, 7710 kilometers distant, was used for the SID on July 24 at 0312.

**As observed on Cheltenham magnetogram of the United States Coast and Geodetic Survey.

***Incomplete recovery of SID

Table 91

Provisional Radio Propagation Quality Figures

June 1946

Compared with CRPL Warnings and CRPL Probable Disturbed Period Forecasts

Day	North Atlantic				North Pacific			
	Quality Figure	CRPL* Warning	CRPL** Probable Disturbed Period Forecast	Geo-magnetic K_A	Quality Figure	CRPL* Warning	CRPL** Probable Disturbed Period Forecast	Geo-magnetic K_A
	01-12 GCT 13-24 GCT	01-12 GCT 13-24 GCT		01-12 GCT 13-24 GCT	01-12 GCT 13-24 GCT	01-12 GCT 13-24 GCT		01-12 GCT 13-24 GCT
1	6 6			2 1	6 7			2 1
2	6 7			1 1	8 7			1 1
3	6 7			1 0	9 7			1 0
4	6 6			1 1	7 6			1 1
5	6 7			1 2	8 8			1 2
6	5 7			3 2	6 6			3 2
7	5 6	X		2 4	5 7	X		2 4
8	(4) 5	X X	X	3 4	6 5	X X	X	3 4
9	(4) 5	X X	X	3 2	5 5	X X	X	3 2
10	6 6			1 2	5 8			1 2
11	5 6			3 2	7 7			3 2
12	5 5			3 3	6 7			3 3
13	(4) 5	X X		3 2	6 6	X X		3 2
14	5 6	X		2 1	6 7	X		2 1
15	5 5			2 2	6 6			2 2
16	6 6			2 3	6 6			2 3
17	(4) 6	X X	X	3 2	6 7	X X	X	3 2
18	6 5	X X	X	3 3	6 8	X X	X	3 3
19	(4) (4)	X X	X	4 3	6 5	X X	X	4 3
20	(4) 6	X	X	2 2	7 8	X	X	2 2
21	(4) 5			3 2	6 7			3 2
22	5 6			2 2	6 5			2 2
23	6 6			2 0	7 7			2 0
24	6 6			1 1	7 8			1 1
25	6 6			2 2	7 8			2 2
26	6 6			2 2	6 8			2 2
27	6 5	X	X	2 3	7 7	X	X	2 3
28	6 5	X	X	3 3	6 7	X	X	3 3
29	5 5	X		3 4	5 6	X		3 4
30	5 6	X X		1 1	(4) (4)	X X		1 1

Quality Figure Scale:

- 1 = Useless
 2 = Very poor
 3 = Poor
 4 = Poor to fair
 5 = Fair
 6 = Fair to good
 7 = Good
 8 = Very good
 9 = Excellent

Symbols

X = Warning given or probable disturbed date.

H = Quality 4 or worse on day or half day of warning.

M = Quality 4 or worse on day or half day of no warning.

G = Quality 5 or better on day of no warning.

(S) = Quality 5 on day of warning.

S = Quality 6 or better on day of warning.

() = Quality 4 or worse (disturbed).

Geomagnetic K_A on the standard scale of 0 to 9, 9 representing the greatest disturbance.

Score:

H	6	5	1	0
M	1	2	0	1
G	16	20	17	21
(S)	5	3	3	3
S	2	0	9	5

*Broadcast on WWV, Washington, D. C. Times of warnings recorded to nearest half-day as broadcast.

**In addition to dates marked X, the following were designated as probable disturbed days on forecasts more than eight days in advance of said dates: June 2-7, 21.

Table 92

Daily Median Values of American Relative Sunspot Numbers*

July 1946

Date	No.	Date	No.
1	82	16	107
2	96	17	119
3	91	18	131
4	90	19	130
5	117	20	92
6	120	21	121
7	114	22	128
8	80	23	128
9	76	24	90
10	70	25	83
11	89	26	127
12	78	27	158
13	80	28	146
14	94	29	143
15	91	30	160
		31	126
No. Days 31		Mean 107.9	

* Median of data from 21 observers.

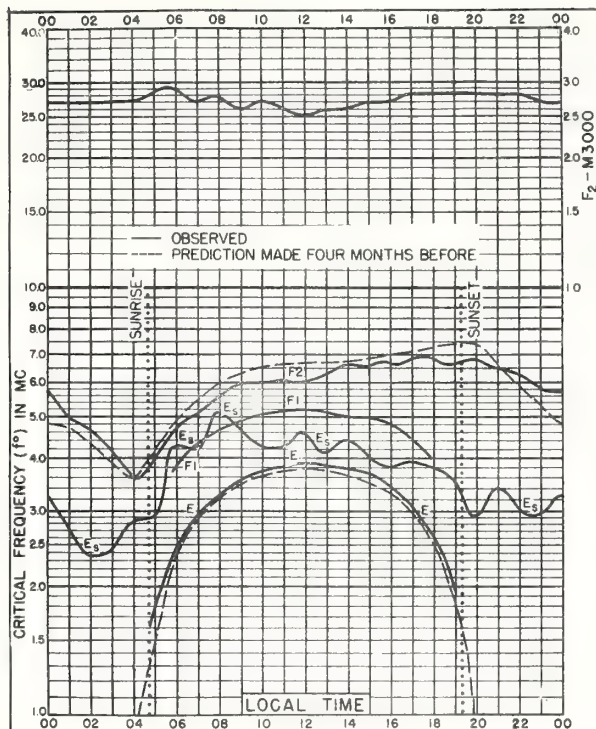


Fig. 1. WASHINGTON, D. C.
39.0°N, 77.5°W

JULY, 1946

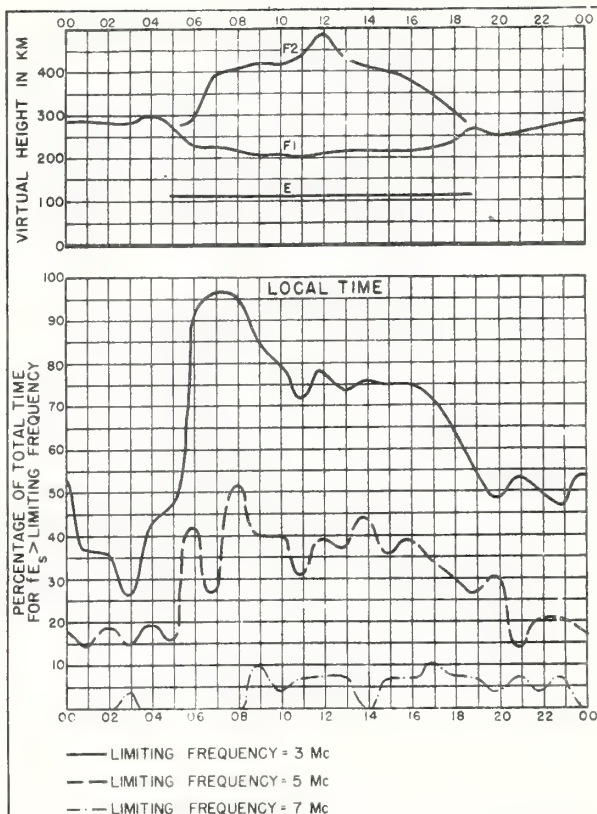


Fig. 2. WASHINGTON, D. C.

JULY, 1946

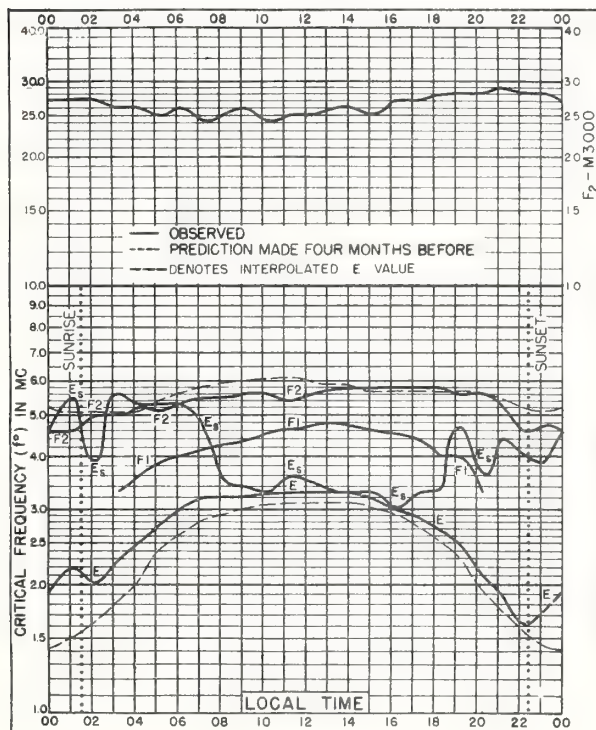


Fig. 3. FAIRBANKS, ALASKA
64.9°N, 147.8°W

JUNE, 1946

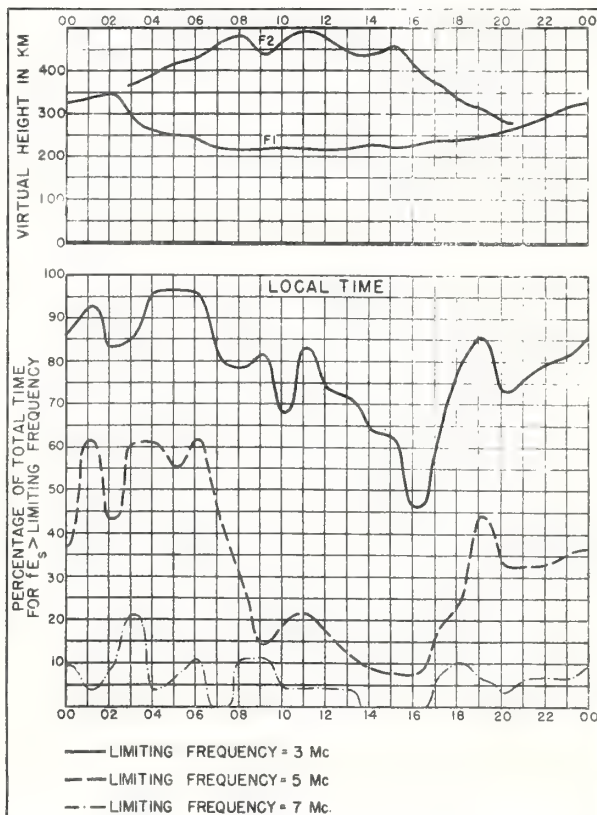


Fig. 4. FAIRBANKS, ALASKA

JUNE, 1946

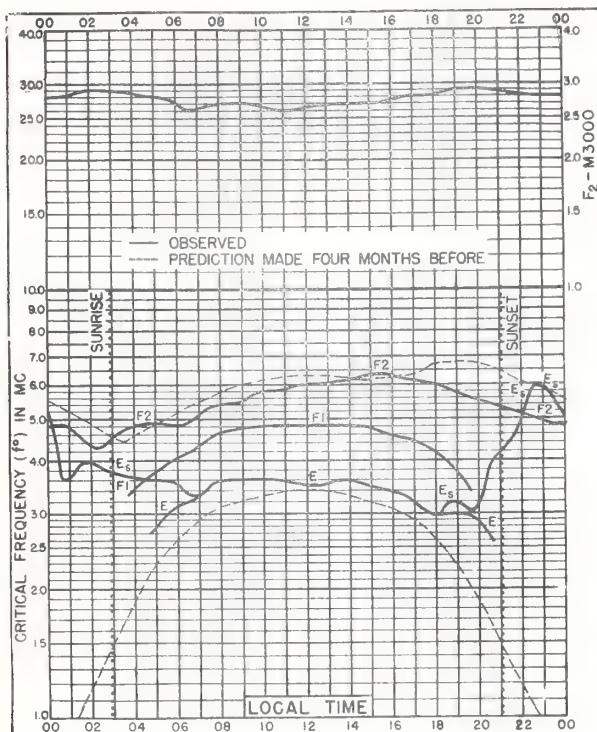


Fig. 5. CHURCHILL, CANADA
58.8°N, 94.2°W

JUNE, 1946

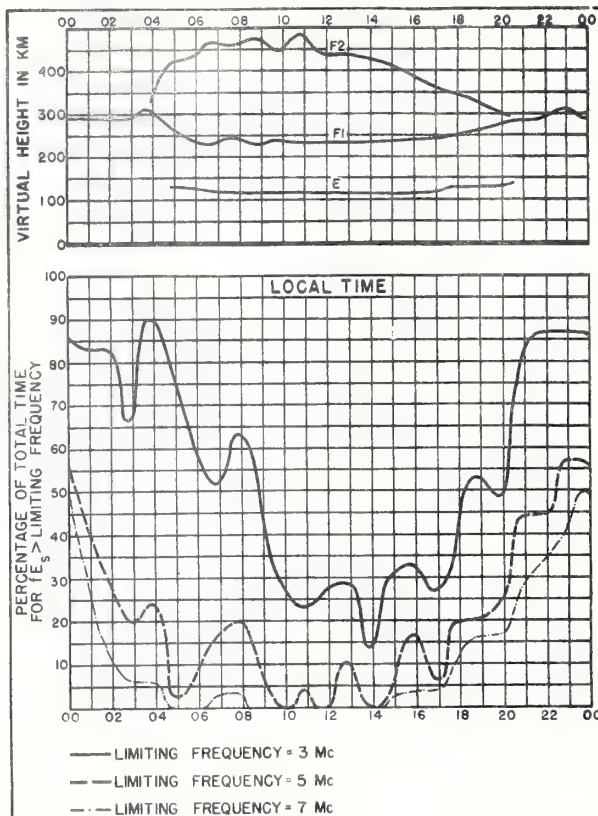


Fig. 6. CHURCHILL, CANADA

JUNE, 1946

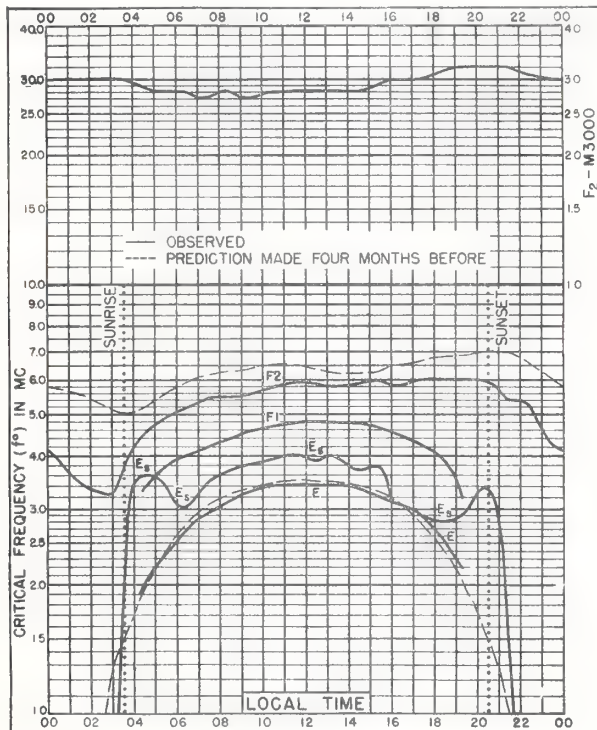


Fig. 7. PRINCE RUPERT, CANADA
54.3°N, 130.3°W

JUNE, 1946

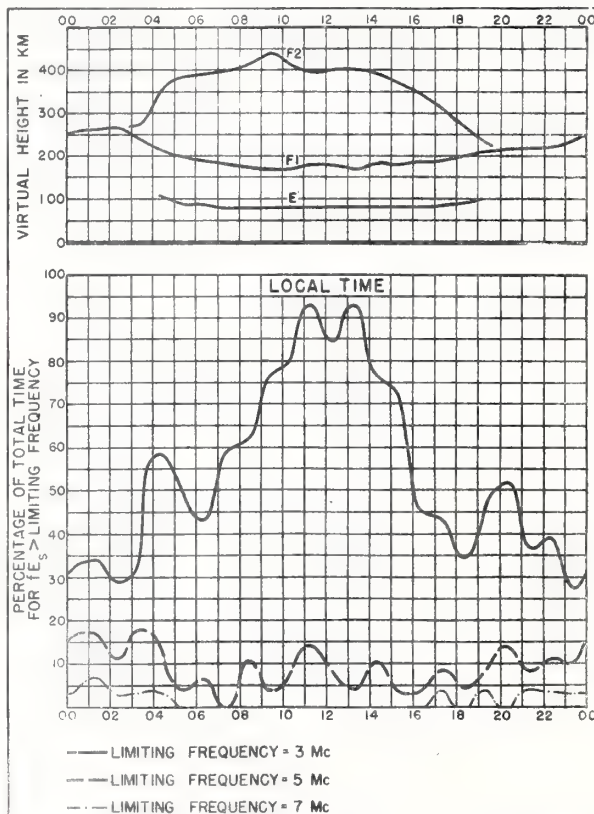
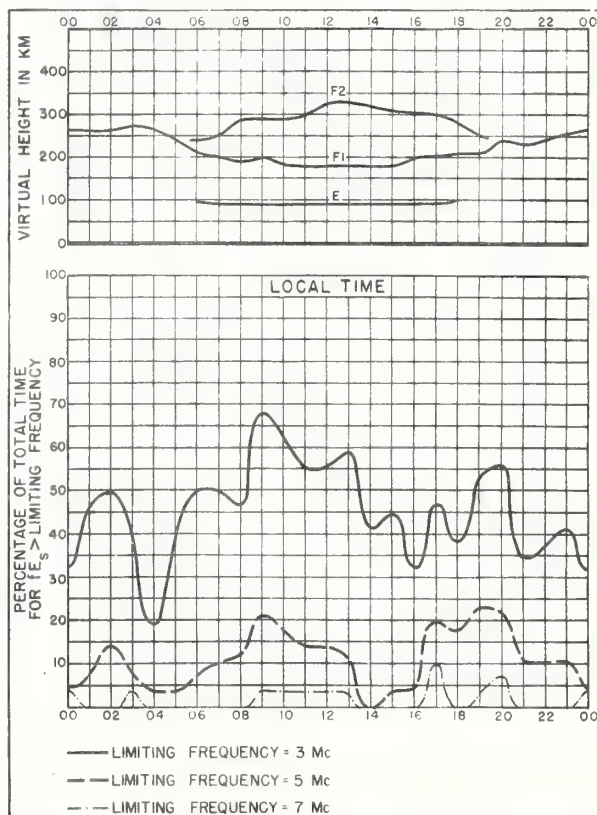
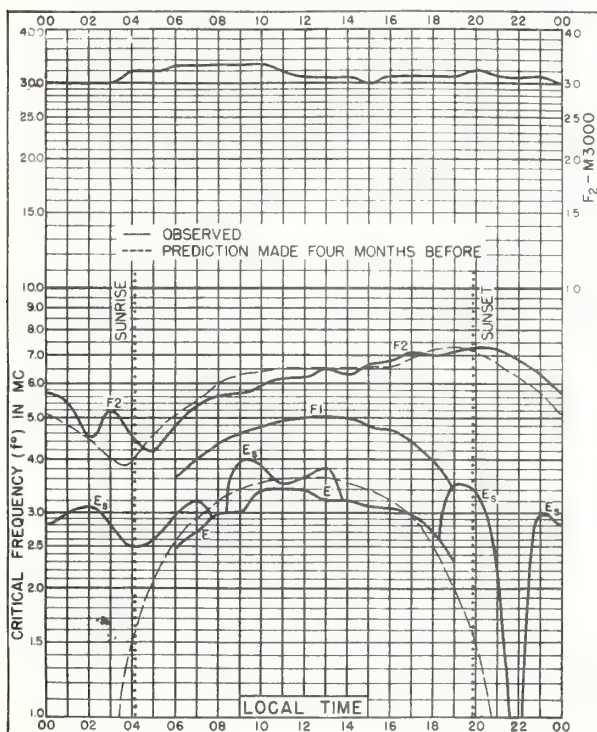
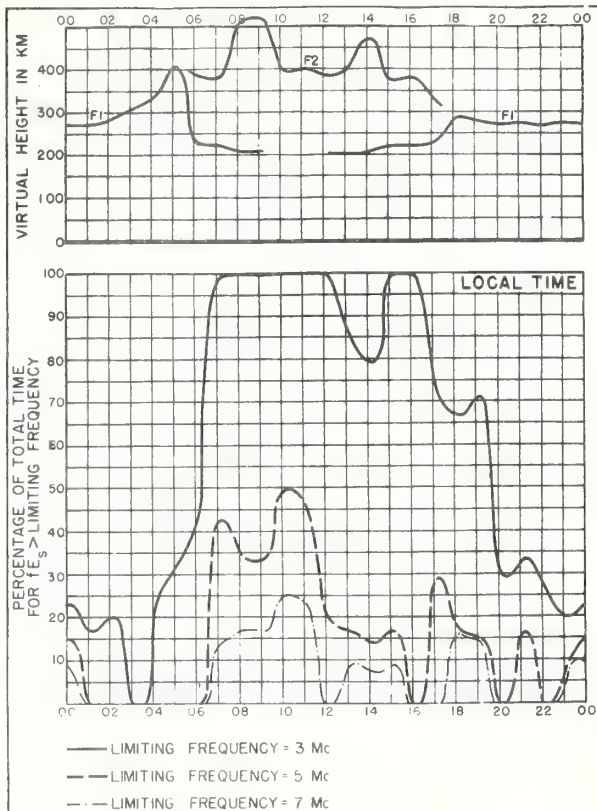
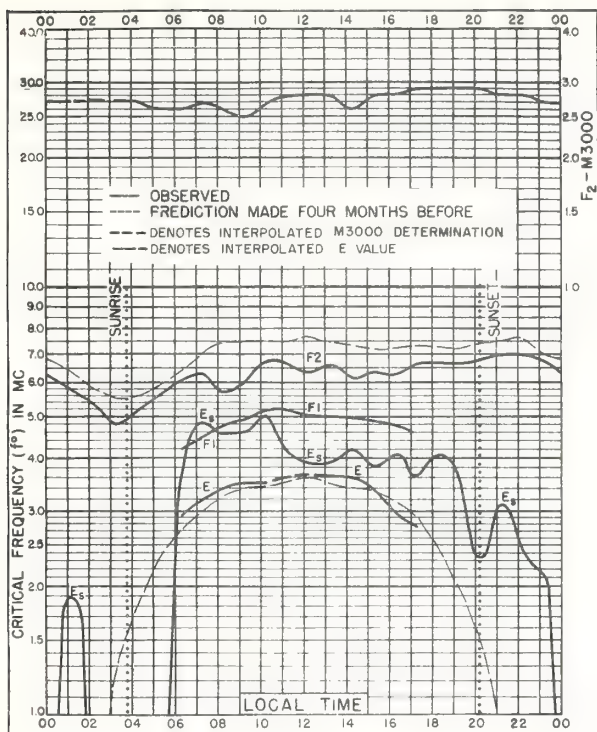


Fig. 8. PRINCE RUPERT, CANADA

JUNE, 1946



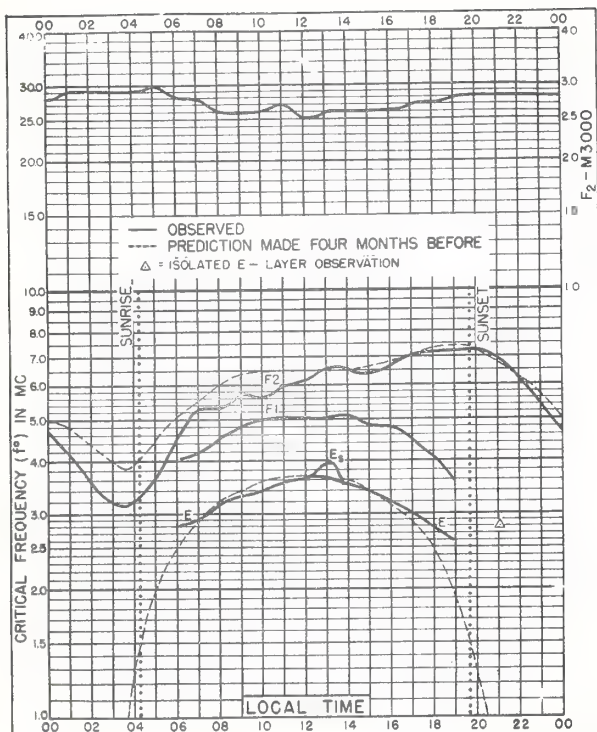


Fig. 13. OTTAWA, CANADA
45.5°N, 75.8°W

JUNE, 1946

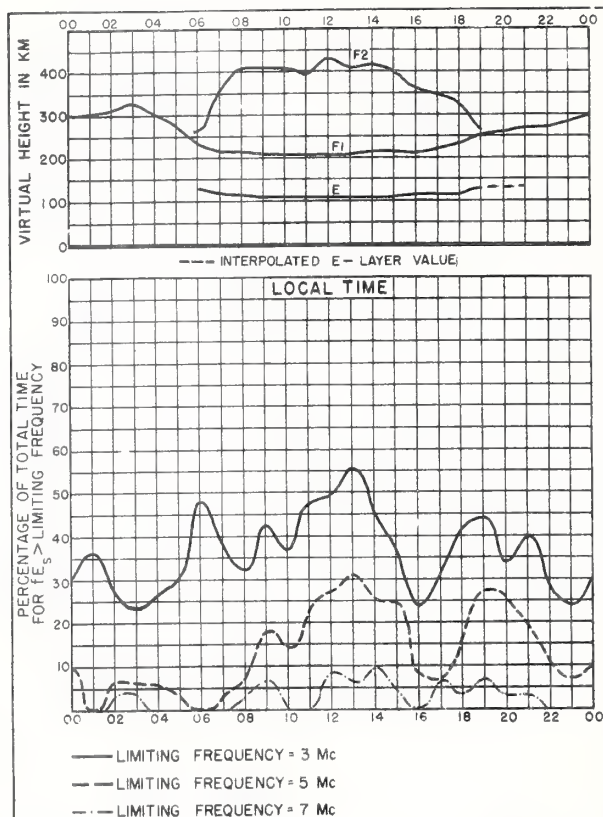


Fig. 14. OTTAWA, CANADA

JUNE, 1946

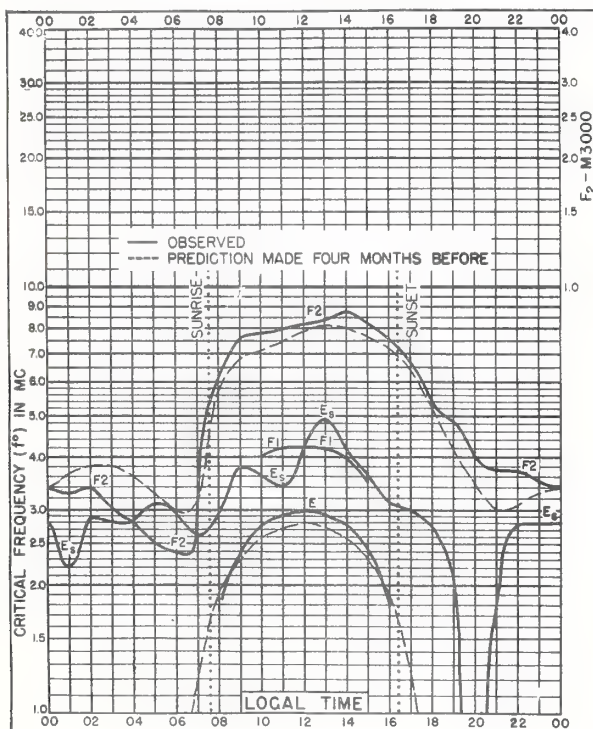


Fig. 15. CHRISTCHURCH, N.Z.
43.5°S, 172.6°E

JUNE, 1946

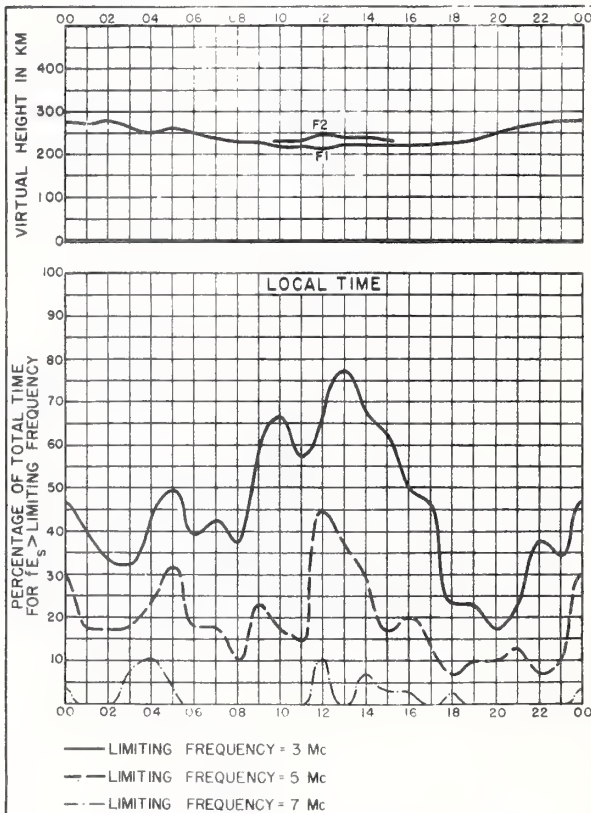
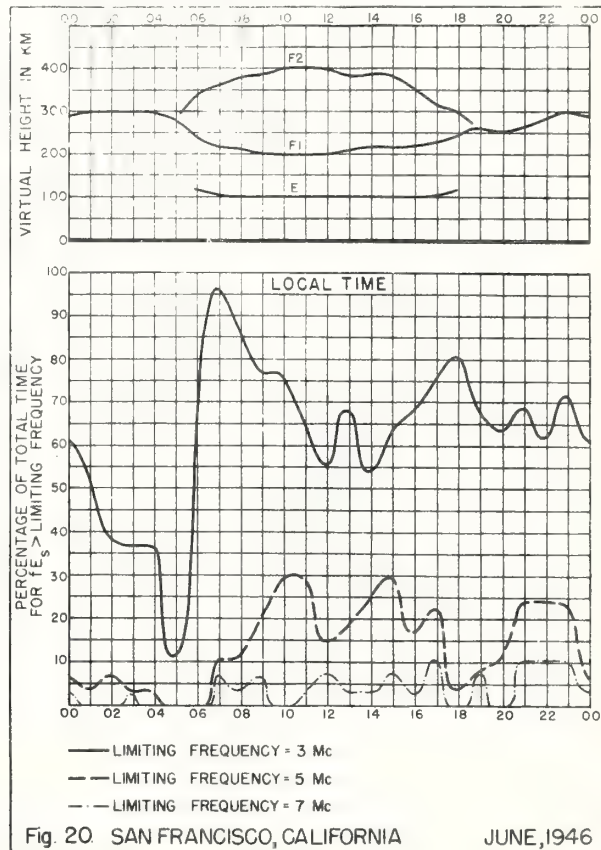
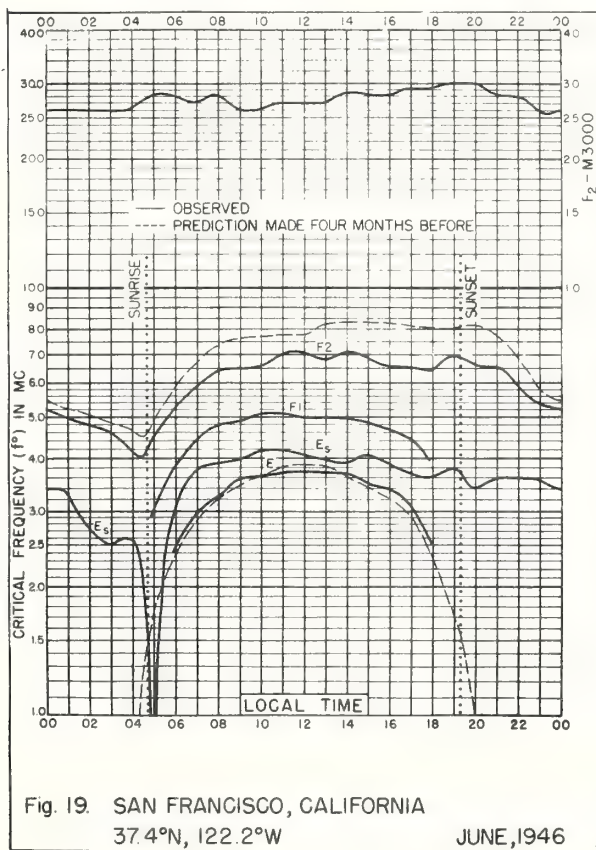
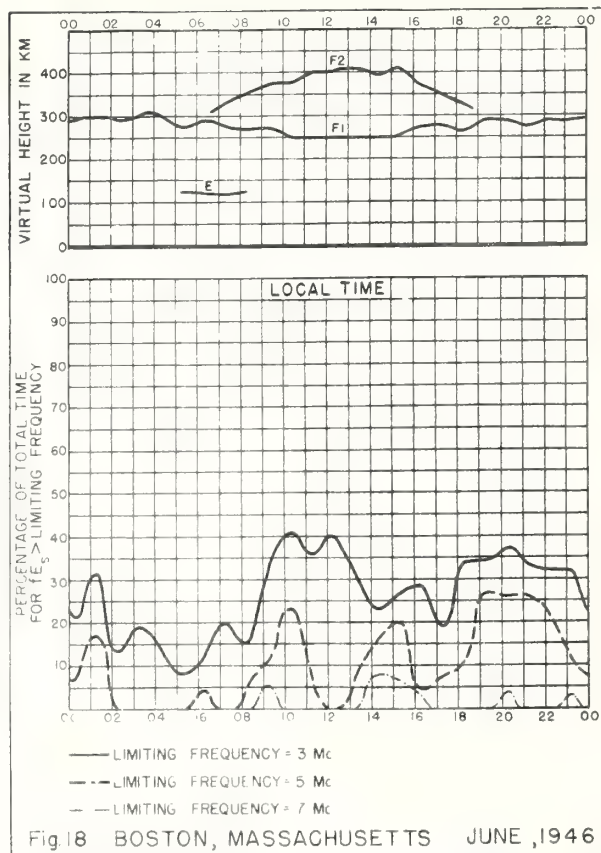
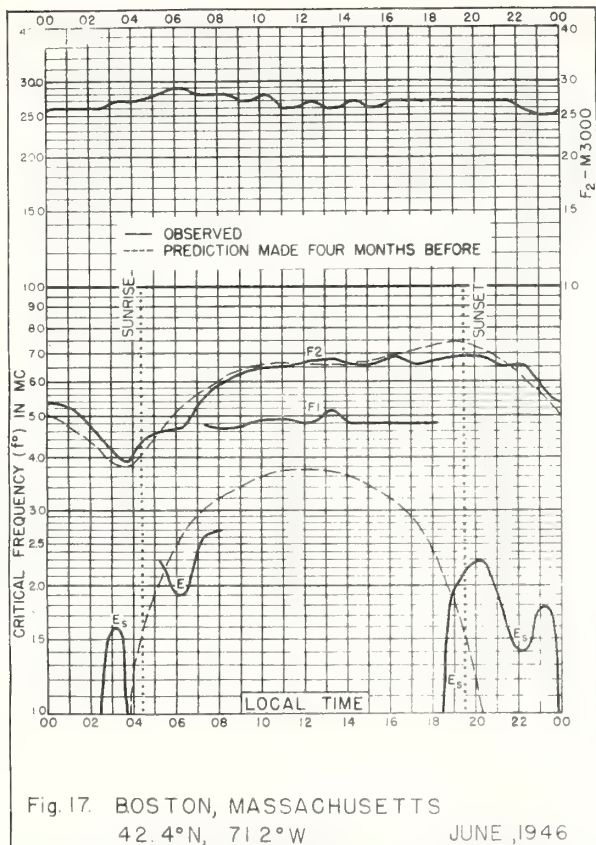


Fig. 16. CHRISTCHURCH, N.Z.

JUNE, 1946



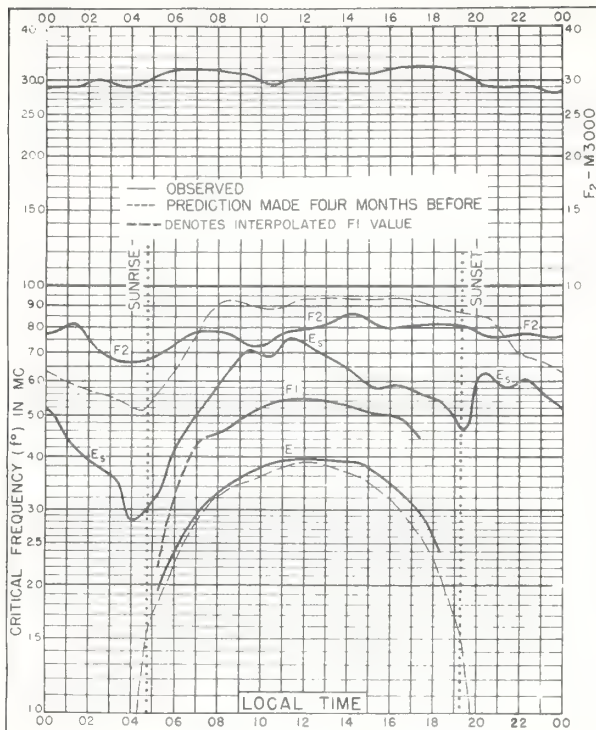


Fig. 21. TOKYO, JAPAN
35°6'N, 139°6'E

JUNE, 1946

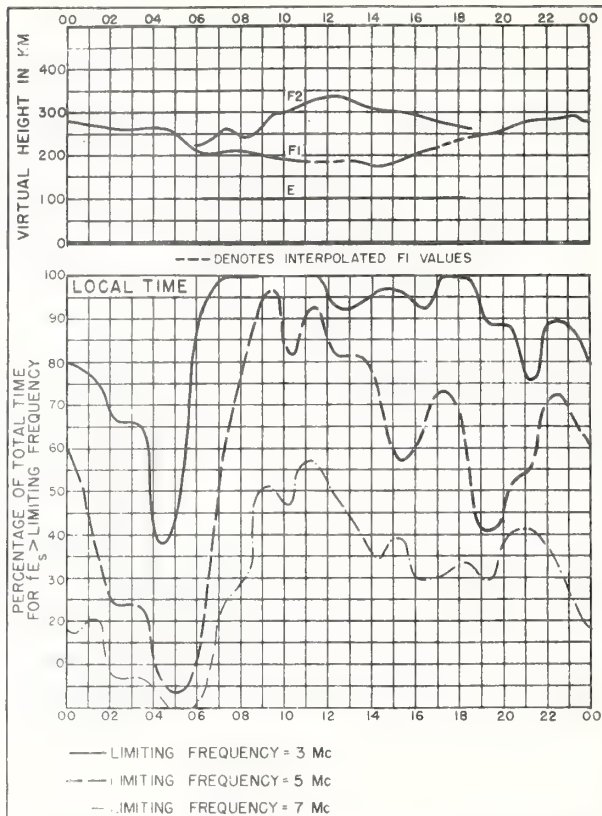


Fig. 22. TOKYO, JAPAN

JUNE, 1946

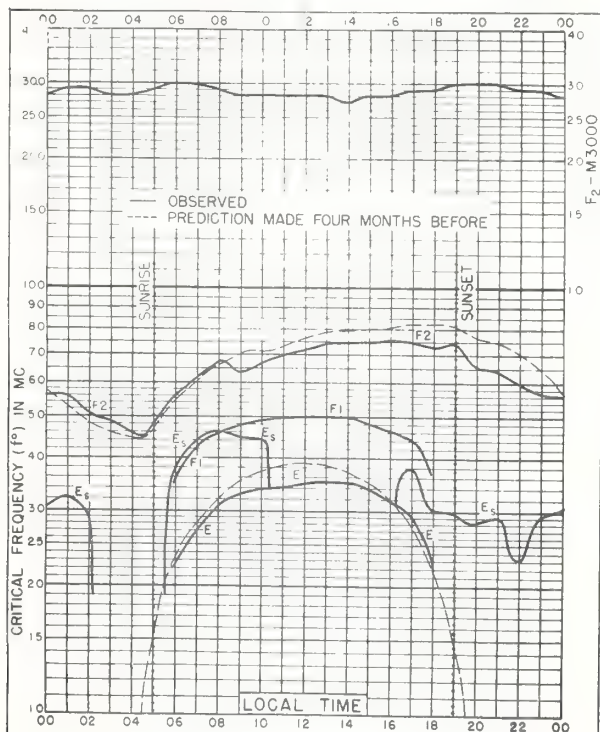


Fig. 23. BATON ROUGE, LOUISIANA
30.5°N, 91.2°W

JUNE, 1946

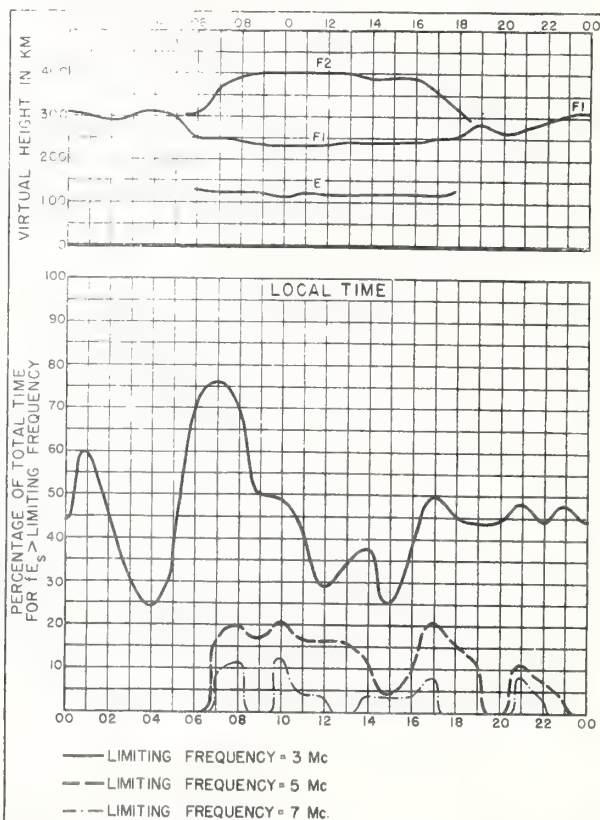


Fig. 24. BATON ROUGE, LOUISIANA

JUNE, 1946

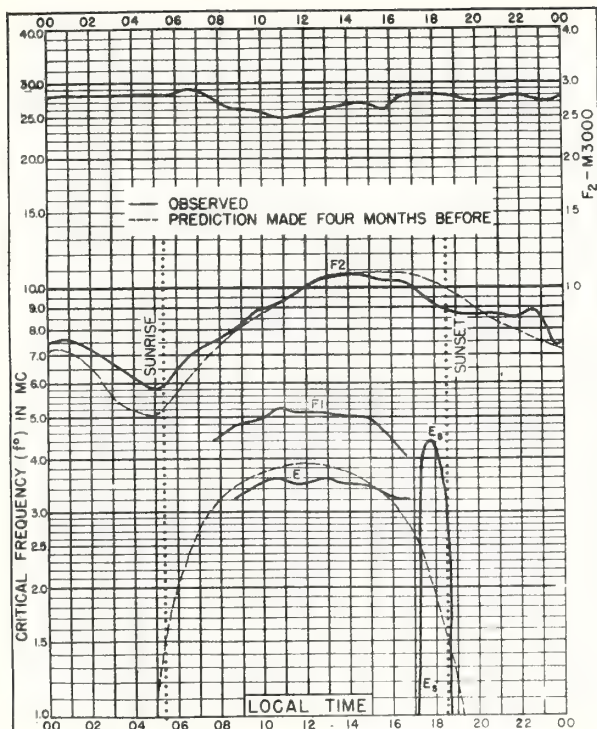


Fig. 25 SAN JUAN, PUERTO RICO
18.4°N, 66.1°W

JUNE, 1946

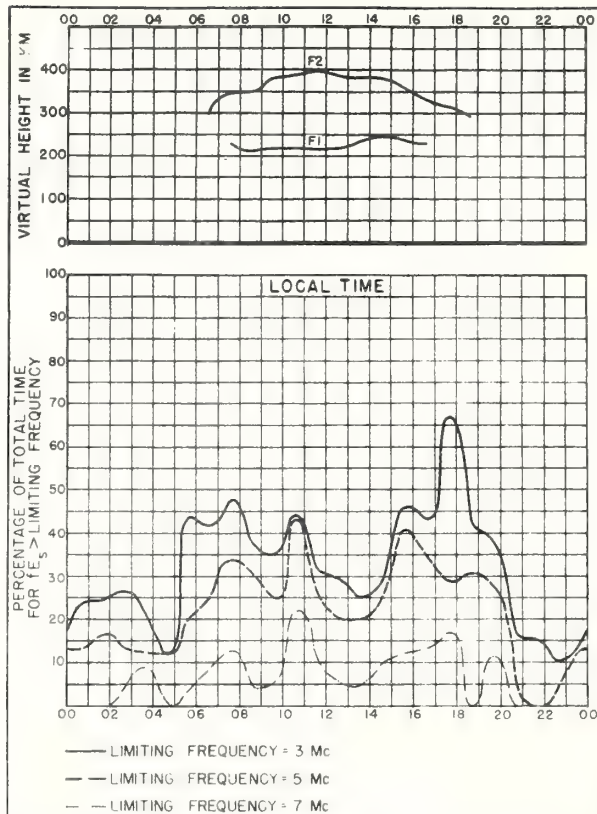


Fig. 26 SAN JUAN, PUERTO RICO

JUNE, 1946

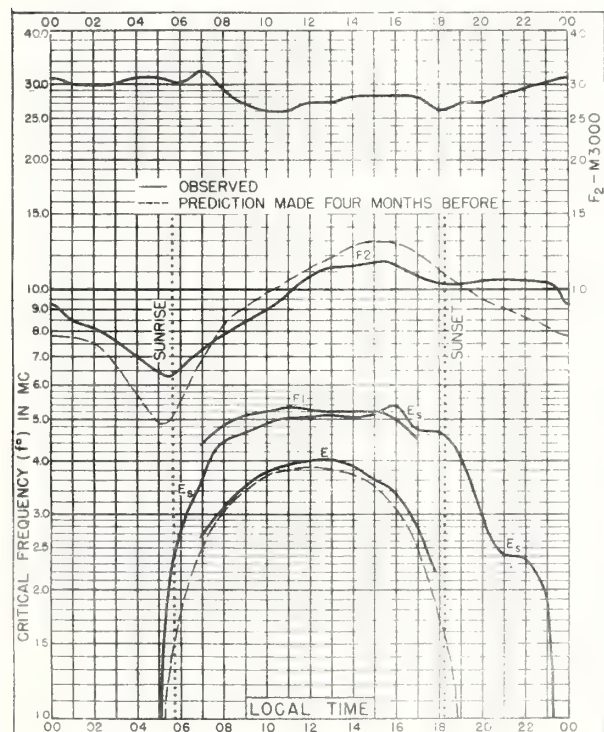


Fig. 27 TRINIDAD, BRIT. WEST INDIES
10.6°N, 61.2°W

JUNE, 1946

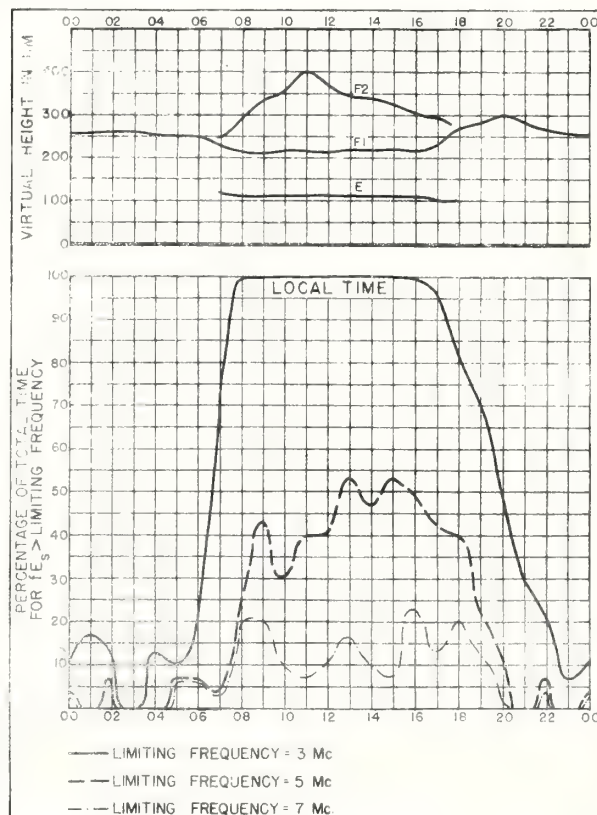


Fig. 28 TRINIDAD, BRIT. WEST INDIES

JUNE, 1946

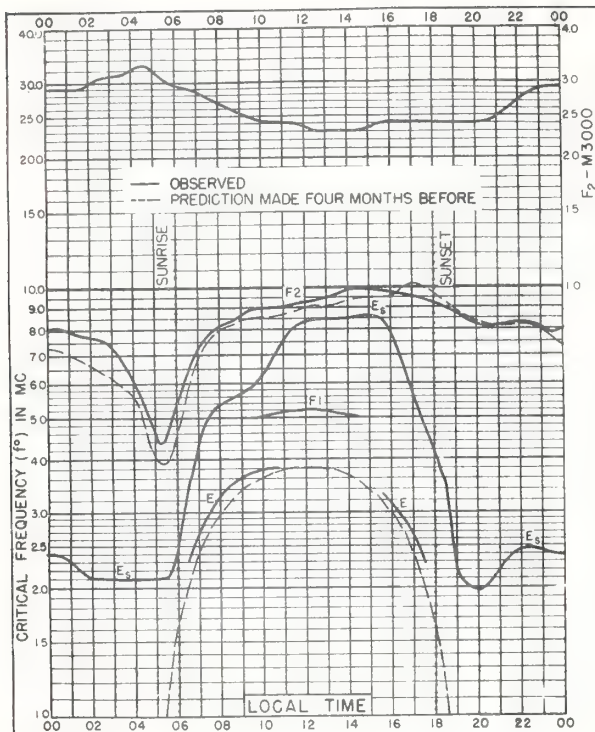


Fig 29 CHRISTMAS I
1.9°N, 157.3°W

JUNE, 1946

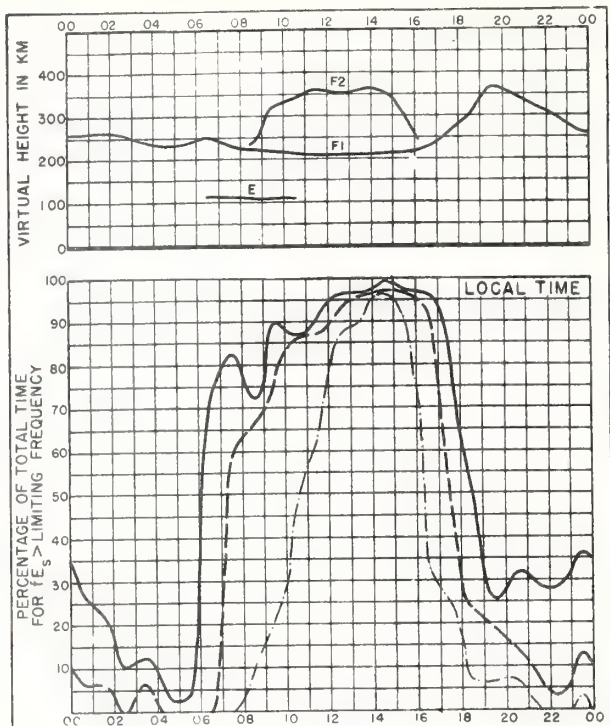


Fig 30 CHRISTMAS I.

JUNE, 1946

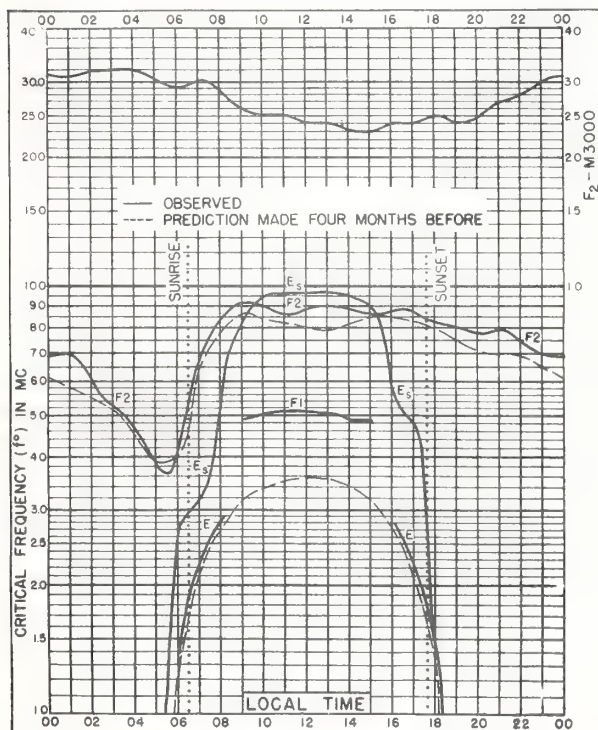


Fig 31. HUANCAYO, PERU
12.0°S, 75.3°W

JUNE, 1946

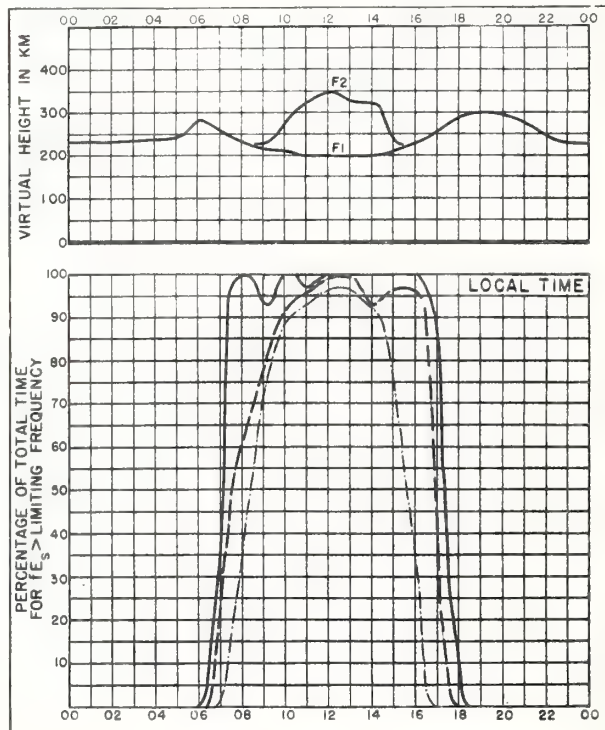


Fig 32. HUANCAYO, PERU

JUNE, 1946

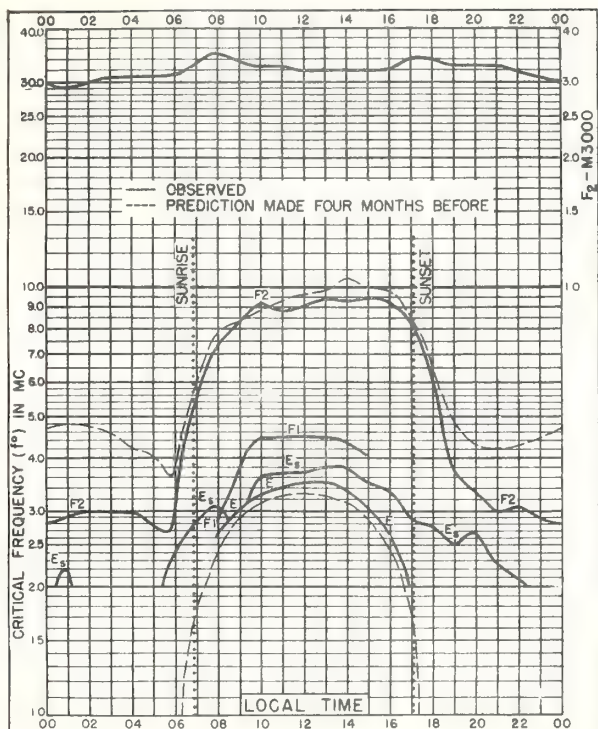


Fig. 33. JOHANNESBURG, UNION OF S. AFRICA
26 2°S, 28.0°E
JUNE, 1946

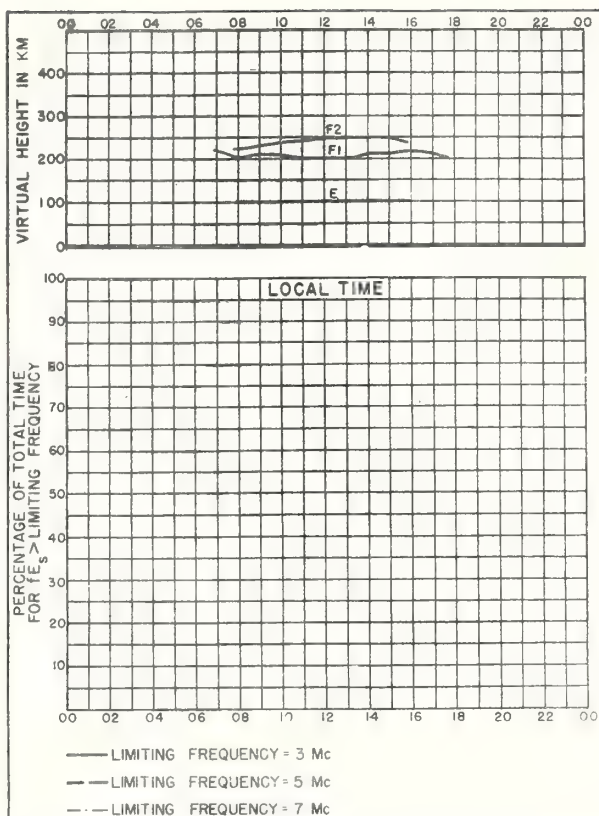


Fig. 34. JOHANNESBURG, UNION OF S. AFRICA
JUNE, 1946

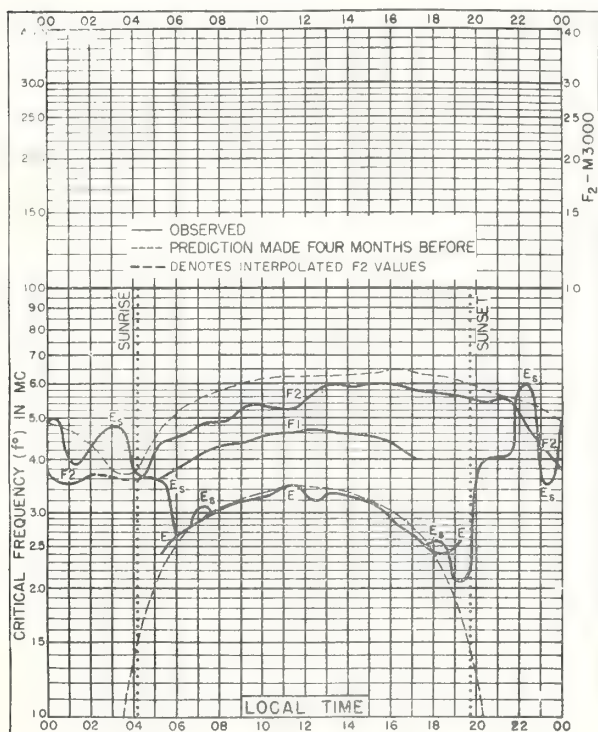


Fig. 35. THE PAS, MANITOBA
54.0°N, 101.0°W
MAY, 1946

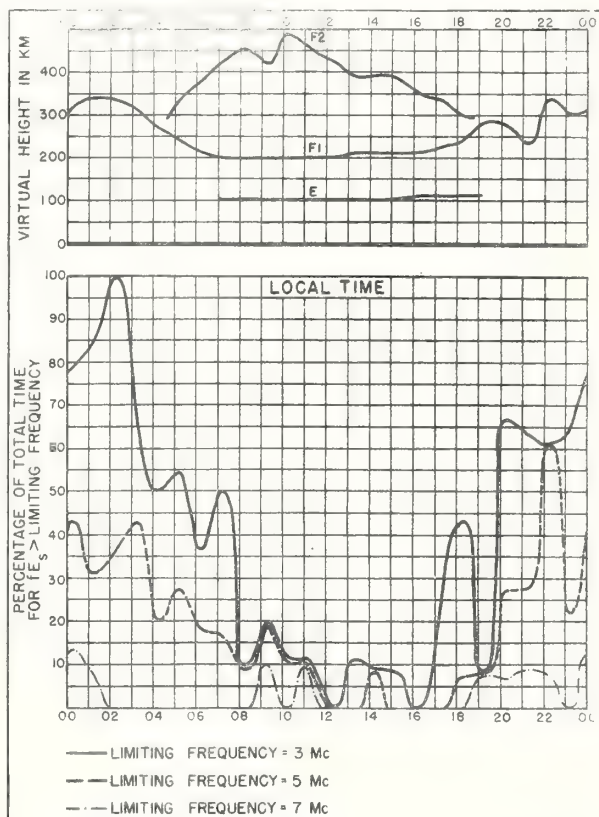
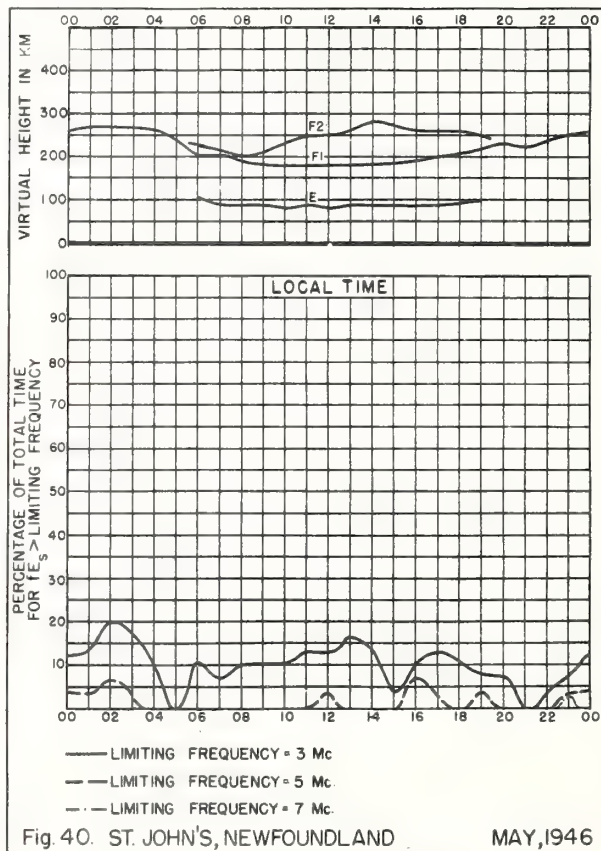
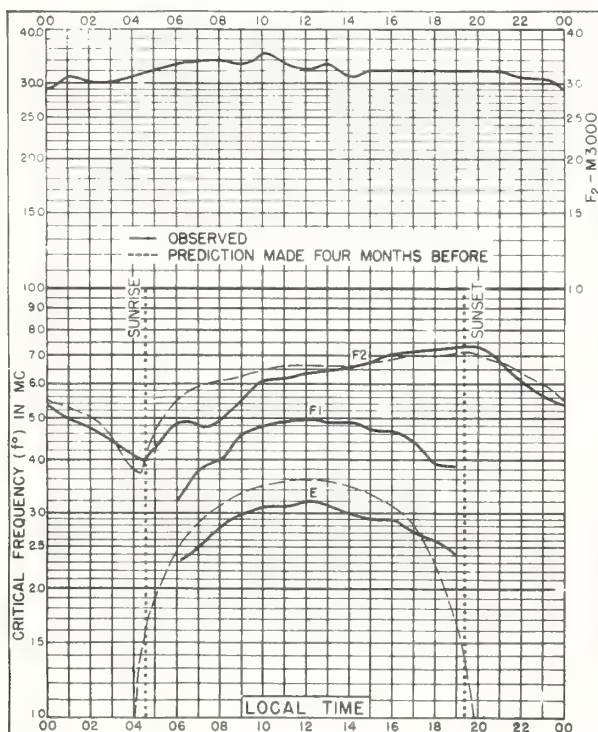
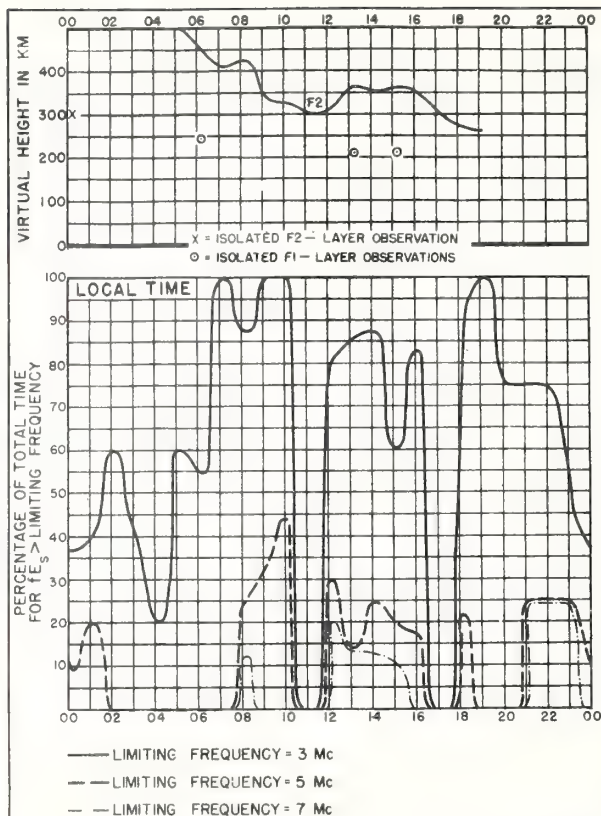
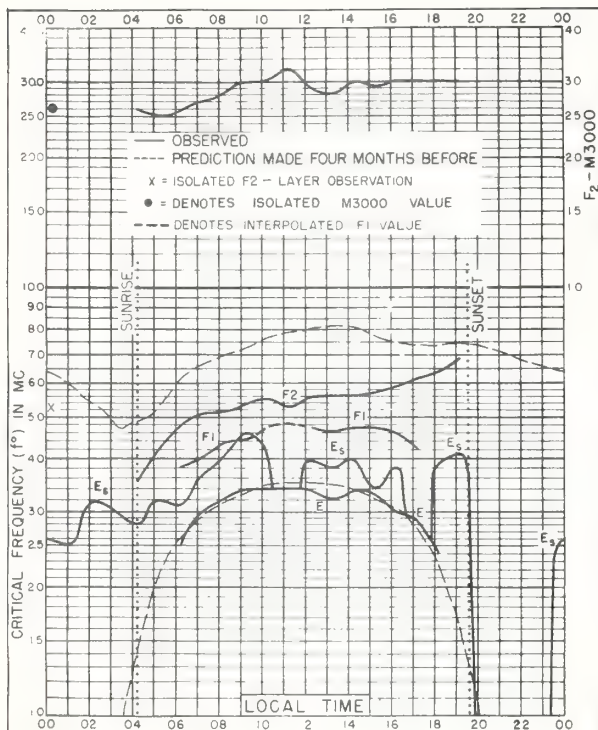
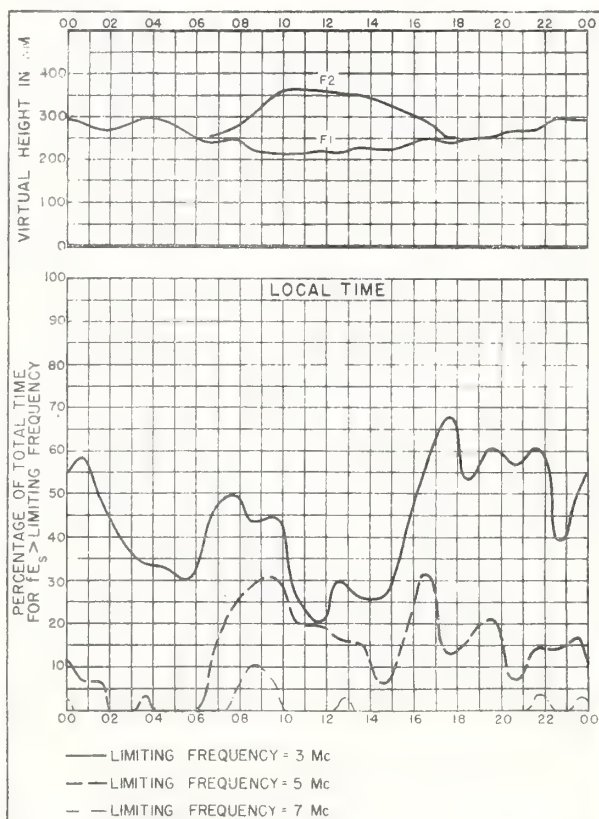
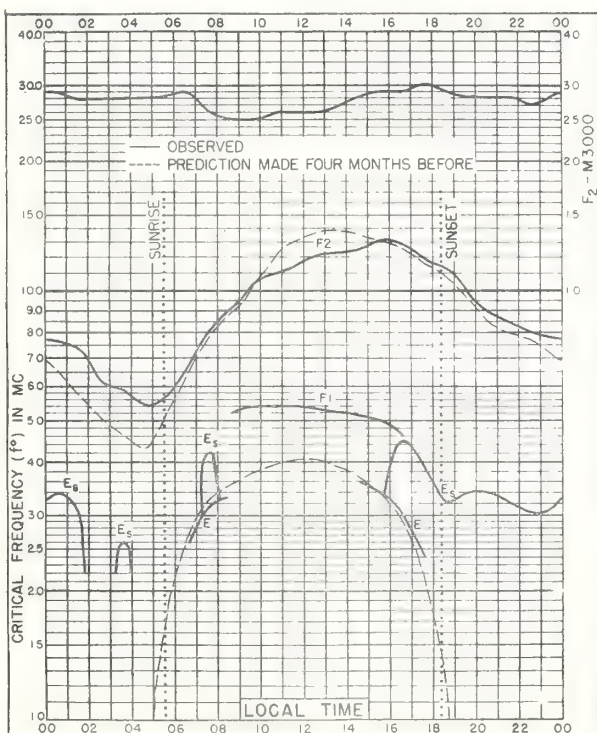
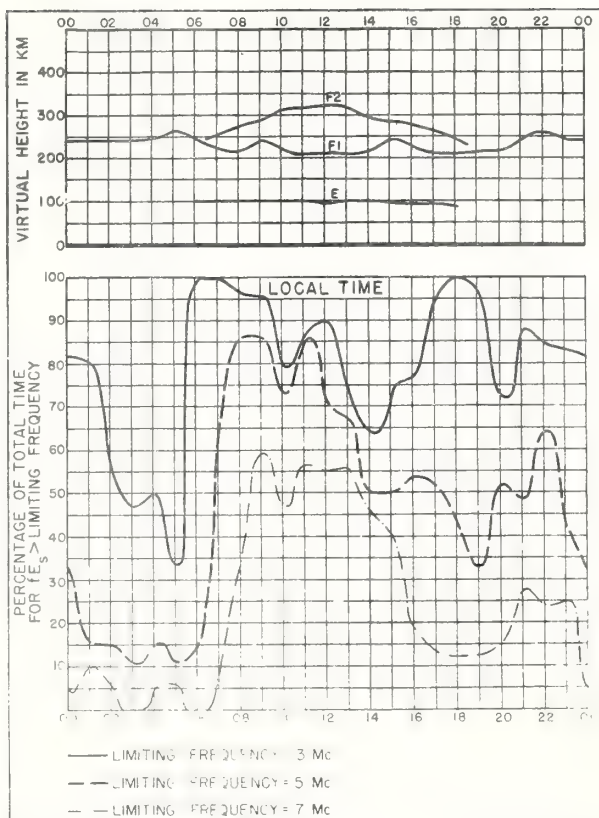
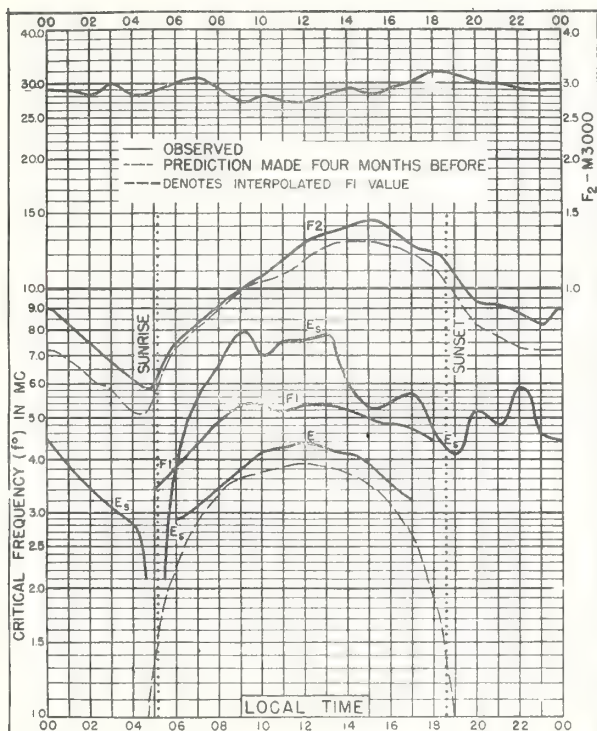
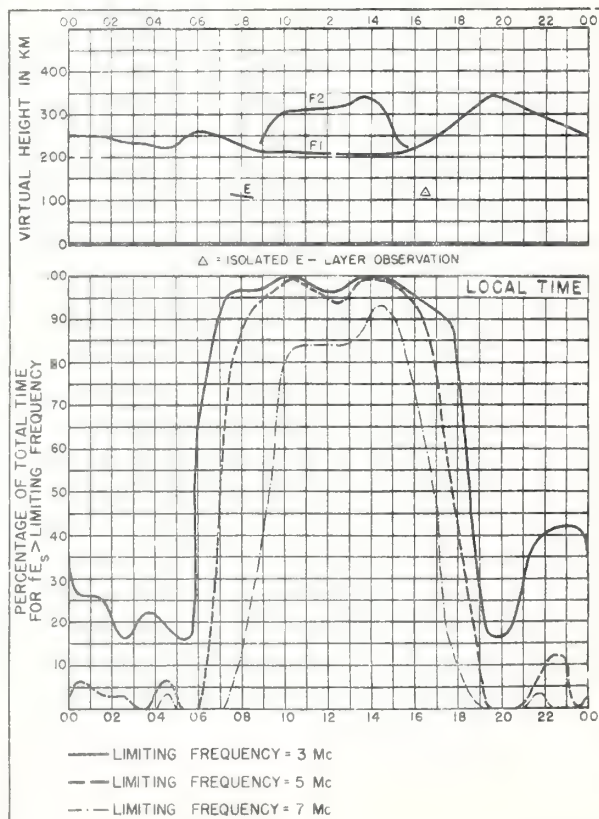
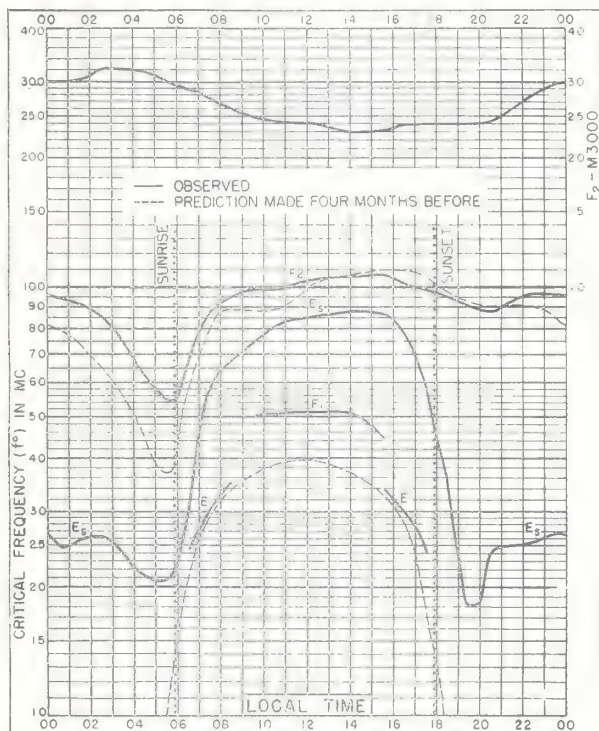
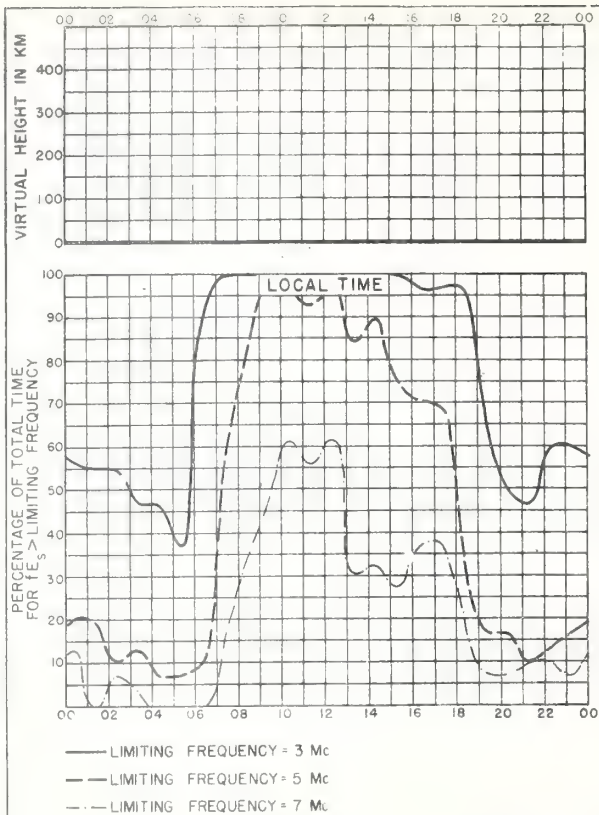
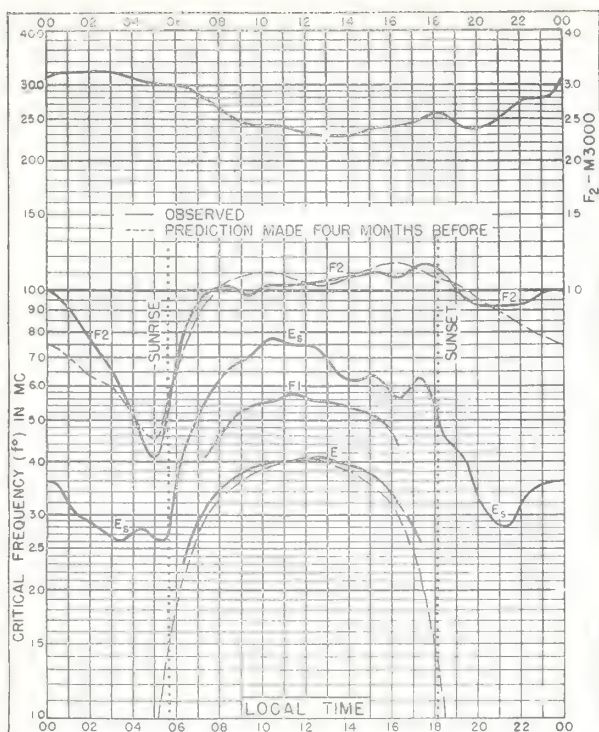


Fig. 36. THE PAS, MANITOBA
MAY, 1946







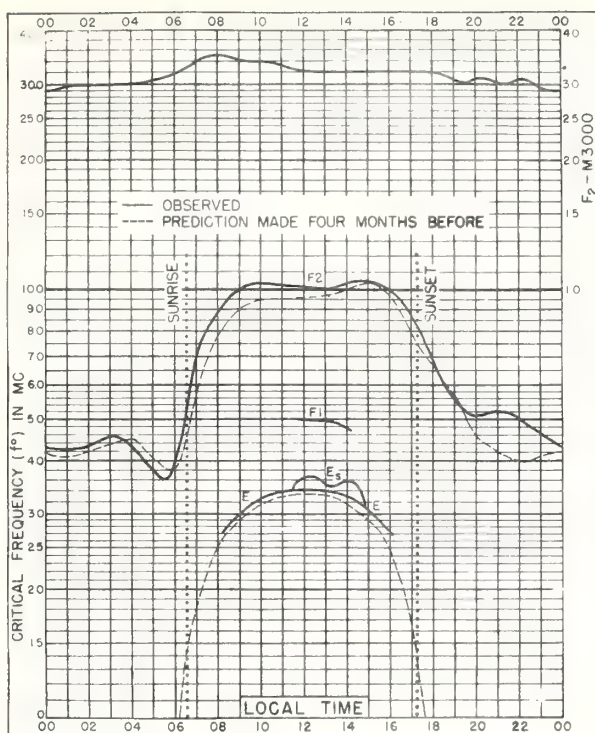


Fig. 49. BRISBANE, AUSTRALIA
27.5°S, 153.0°E

MAY, 1946

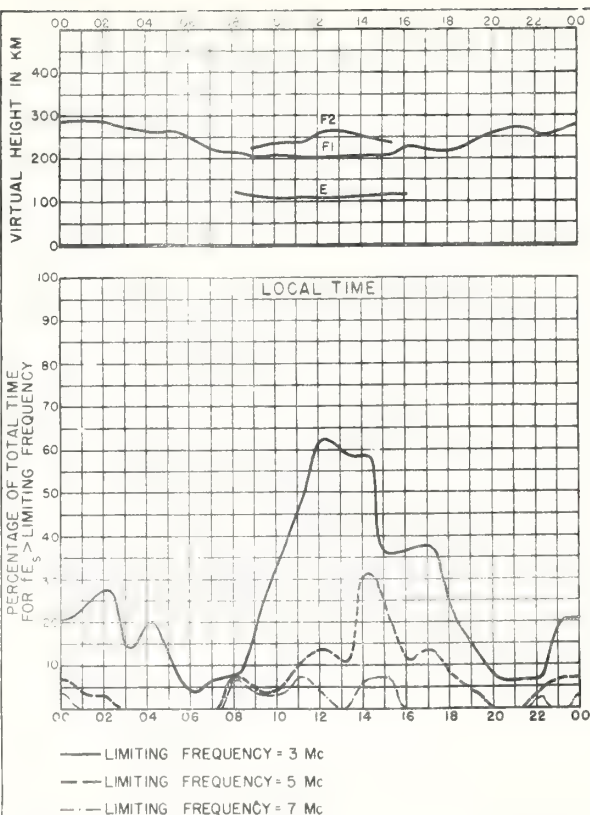


Fig. 50. BRISBANE, AUSTRALIA

MAY, 1946

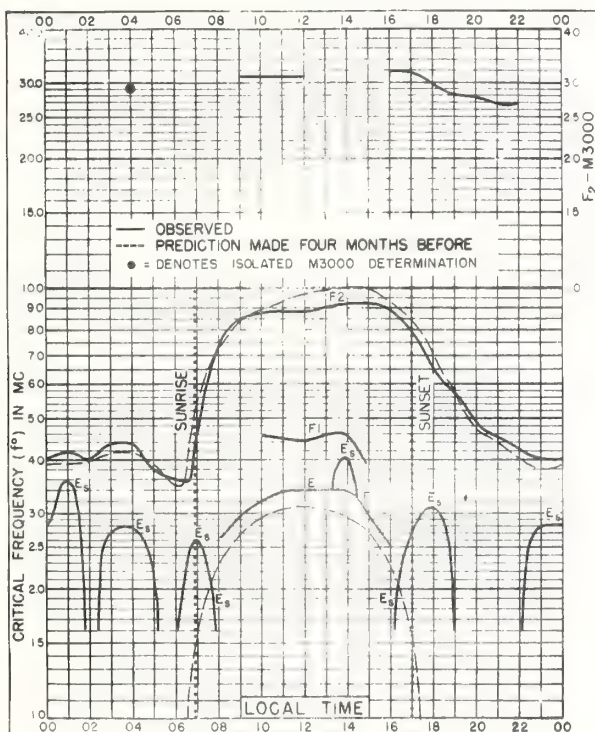


Fig. 51. CANBERRA, AUSTRALIA
35.3°S, 149.0°E

MAY, 1946

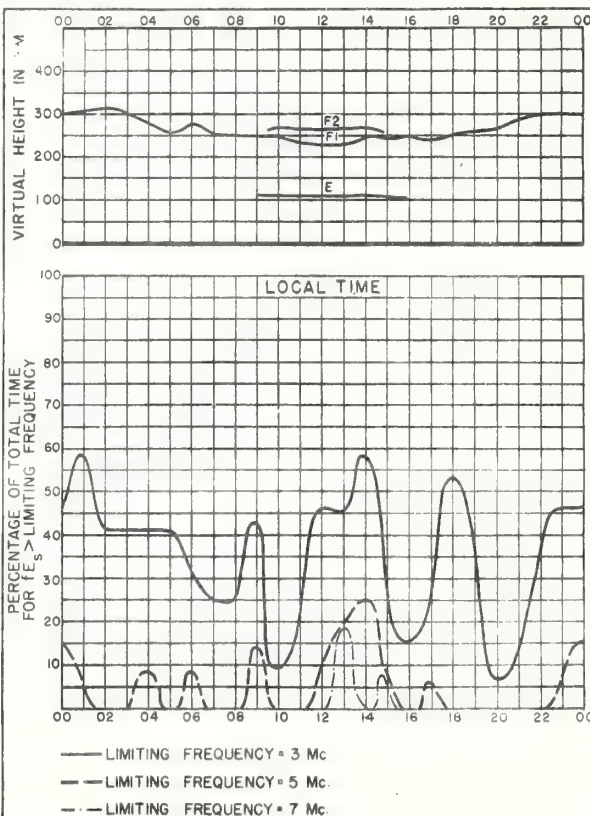


Fig. 52. CANBERRA, AUSTRALIA

MAY, 1946

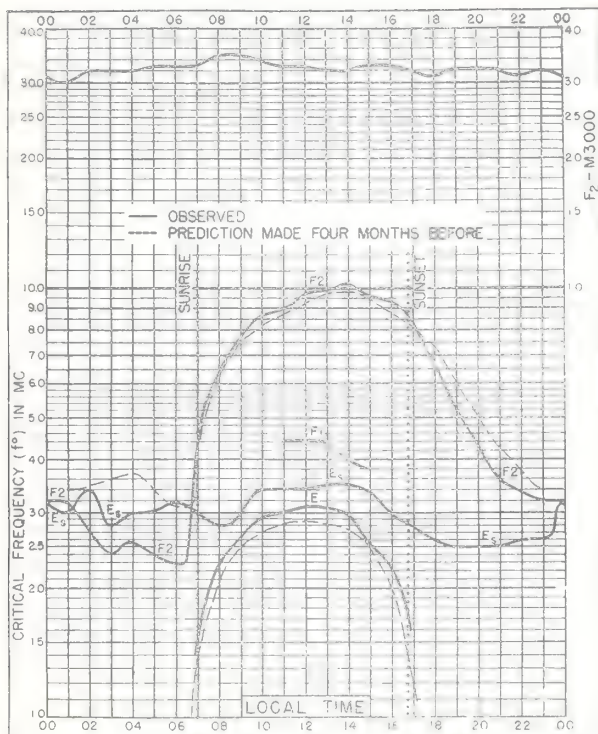


Fig. 53. HOBART, TASMANIA
42.8°S, 147.4°E

MAY, 1946

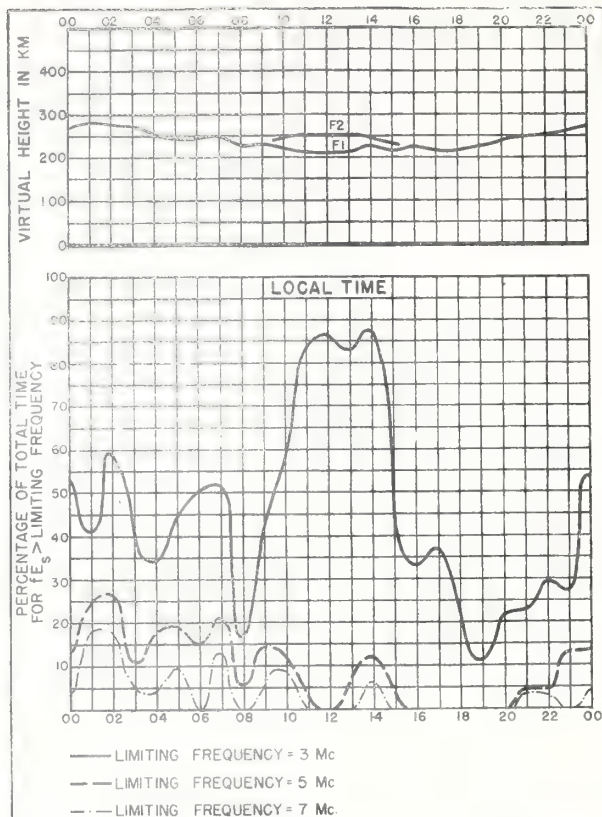


Fig. 54. HOBART, TASMANIA

MAY, 1946

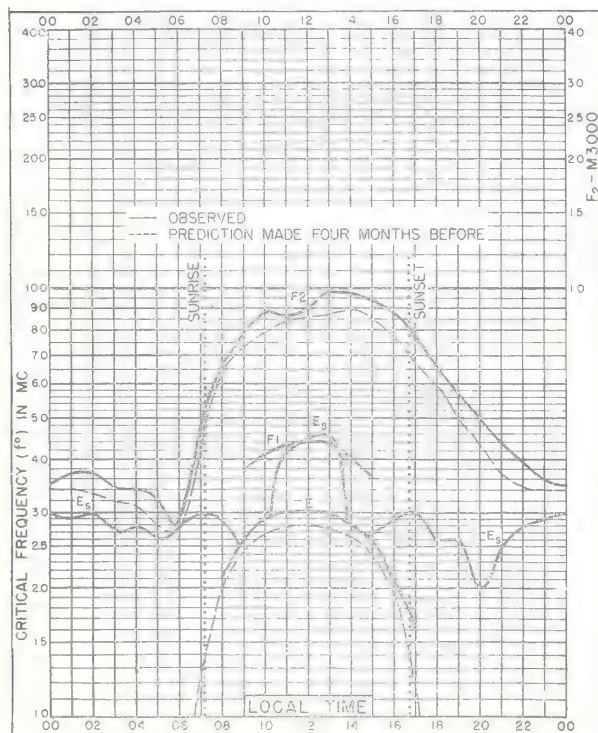


Fig. 55. CHRISTCHURCH, N. Z.
43.5°S, 172.6°E

MAY, 1946

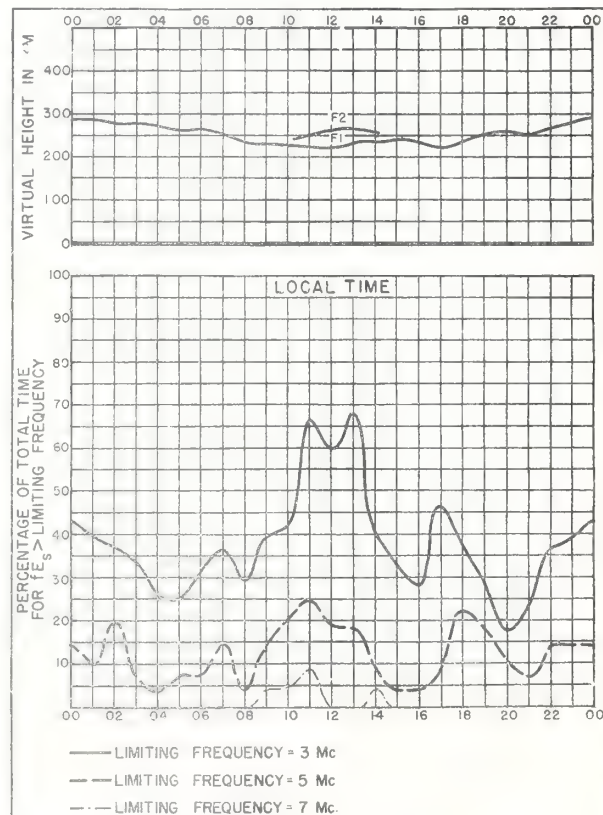


Fig. 56. CHRISTCHURCH, N. Z.

MAY, 1946

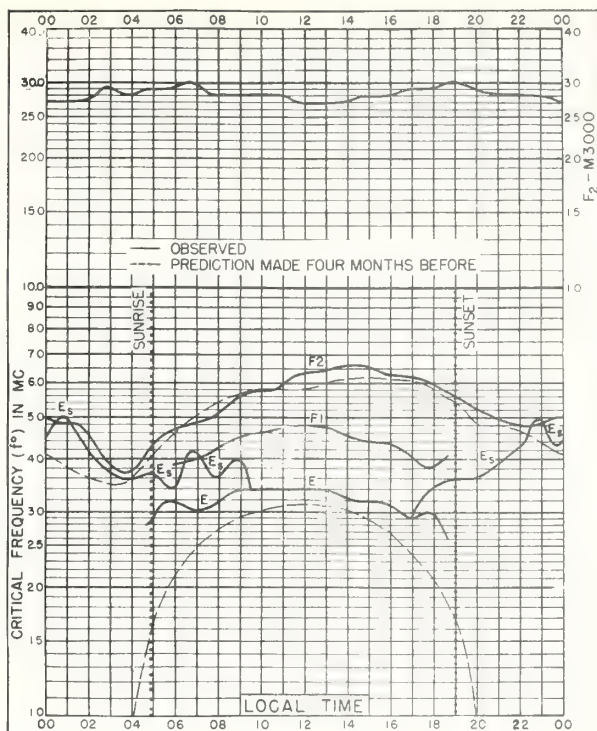


Fig. 57. CHURCHILL, CANADA
58.8°N, 94.2°W

APRIL, 1946

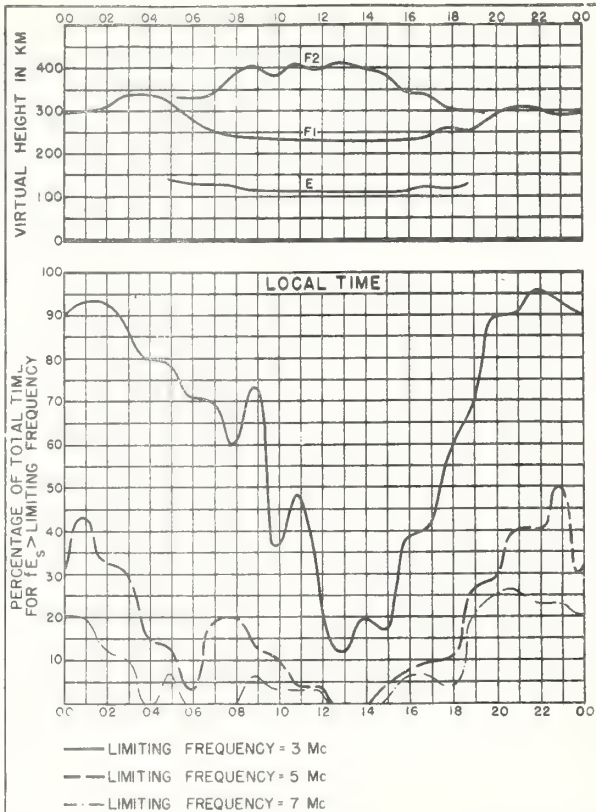


Fig. 58. CHURCHILL, CANADA

APRIL, 1946

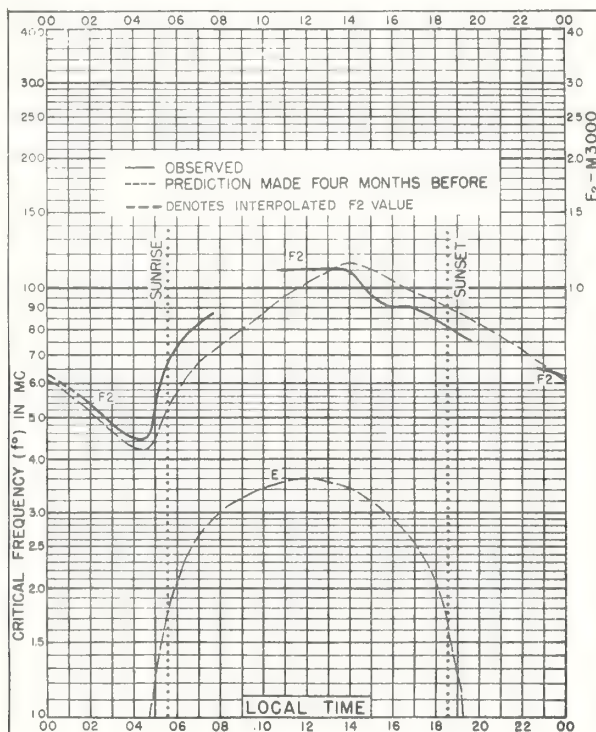


Fig. 59. PEIPING, CHINA
39.6°N, 116.3°E

APRIL, 1946

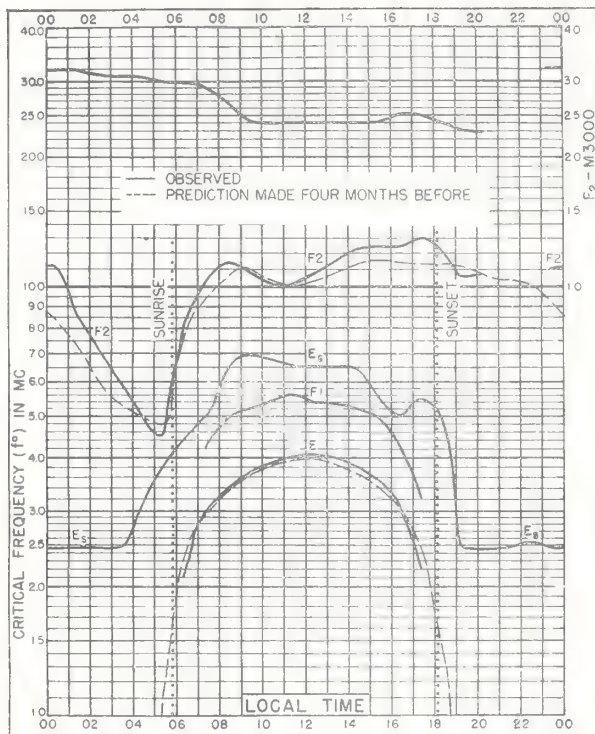


Fig. 60. LEYTE, PHILIPPINE IS
11.0°N, 125.0°E

APRIL, 1946

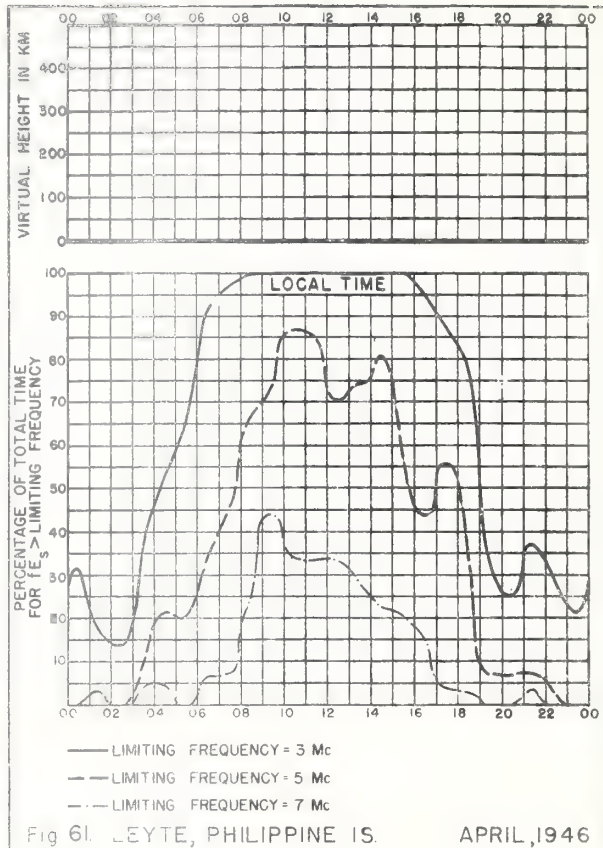


Fig. 61. LEYTE, PHILIPPINE IS.

APRIL, 1946

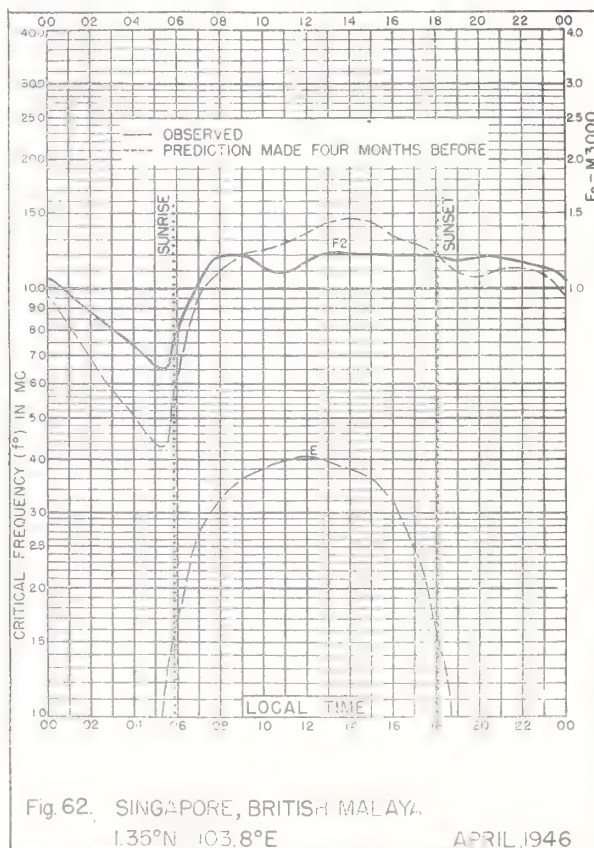


Fig. 62. SINGAPORE, BRITISH MALAYA
1.35°N, 103.8°E

APRIL, 1946

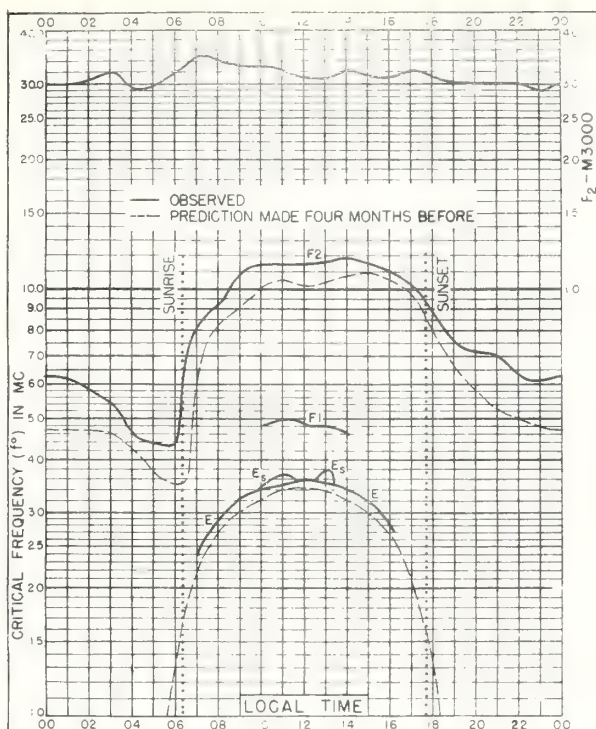


Fig. 63 BRISBANE, AUSTRALIA
27°S, 153°E

APRIL, 1946

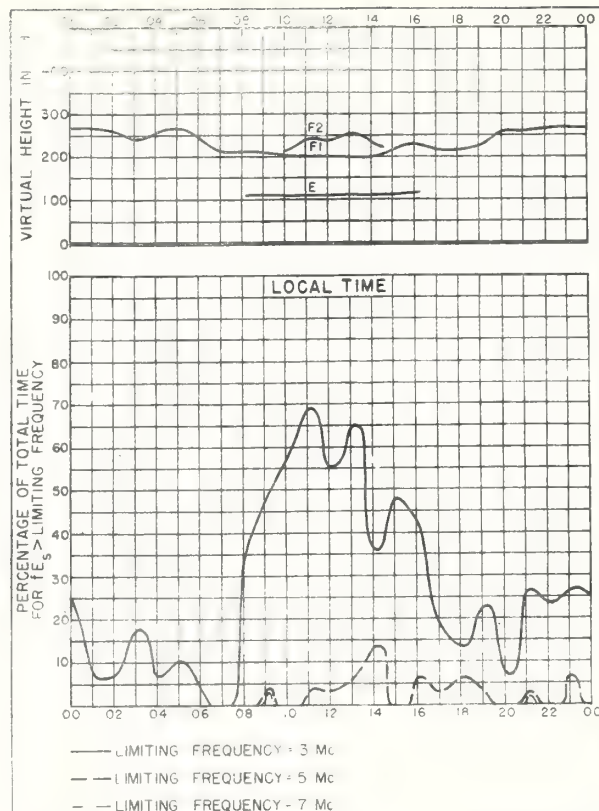


Fig. 64 BRISBANE, AUSTRALIA

APRIL, 1946

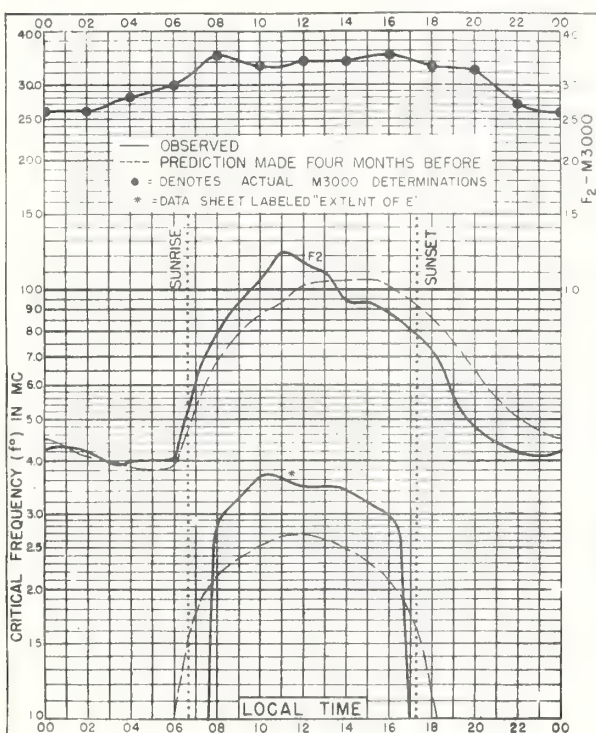


Fig. 65 FALKLAND IS
51°S, 57°W

APRIL, 1946

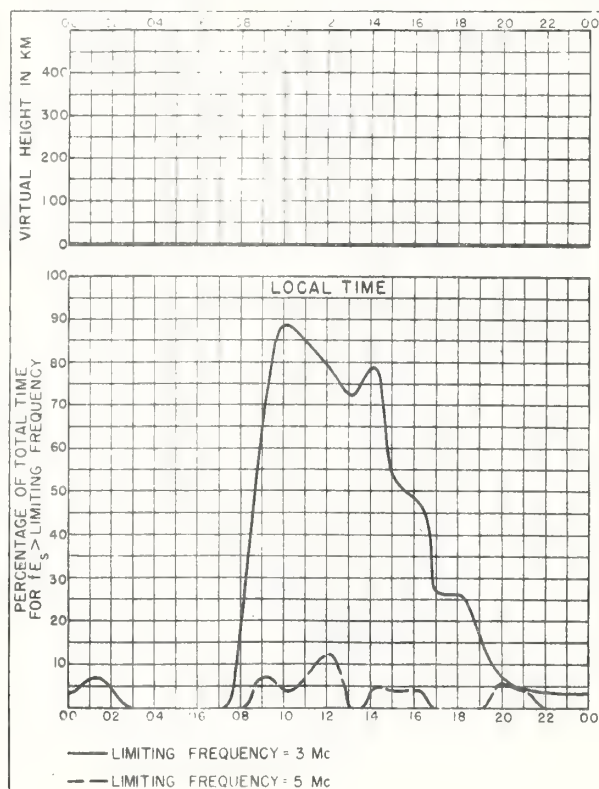
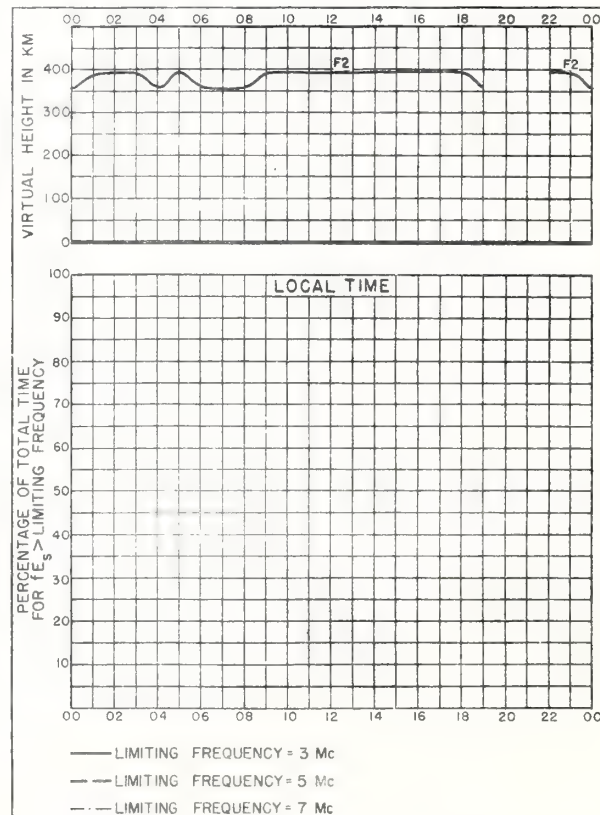
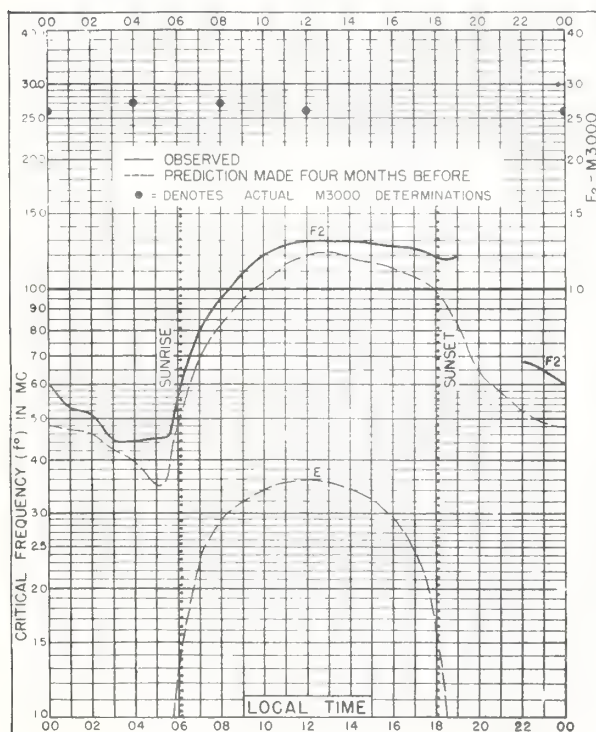
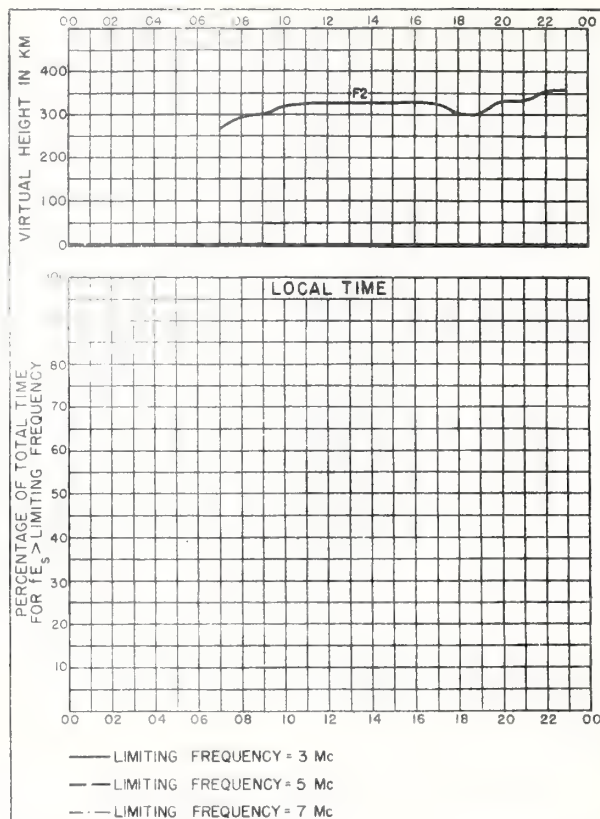
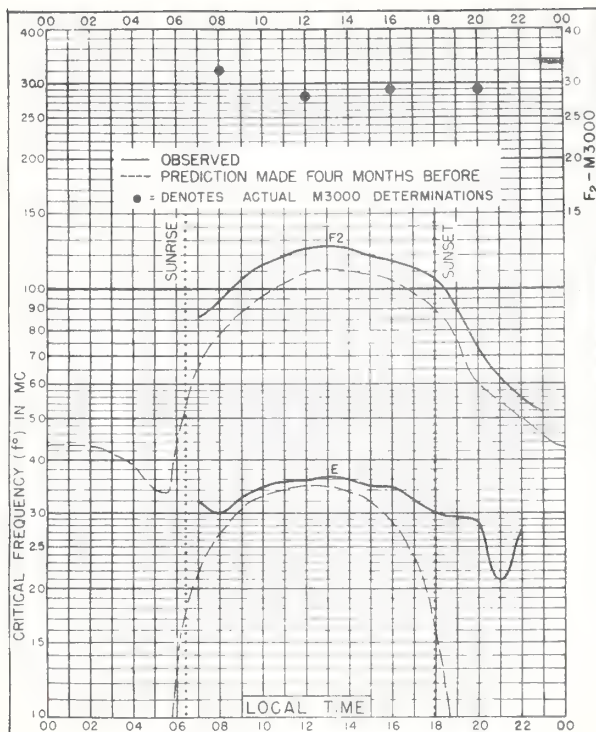
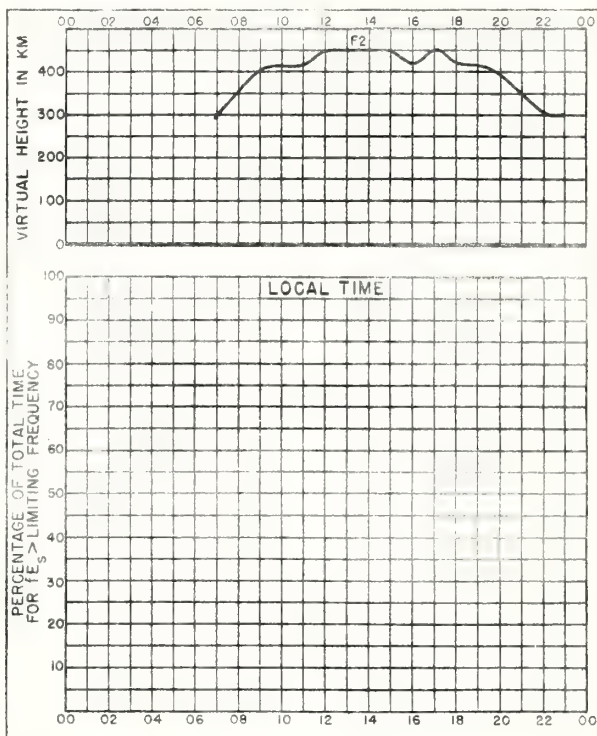
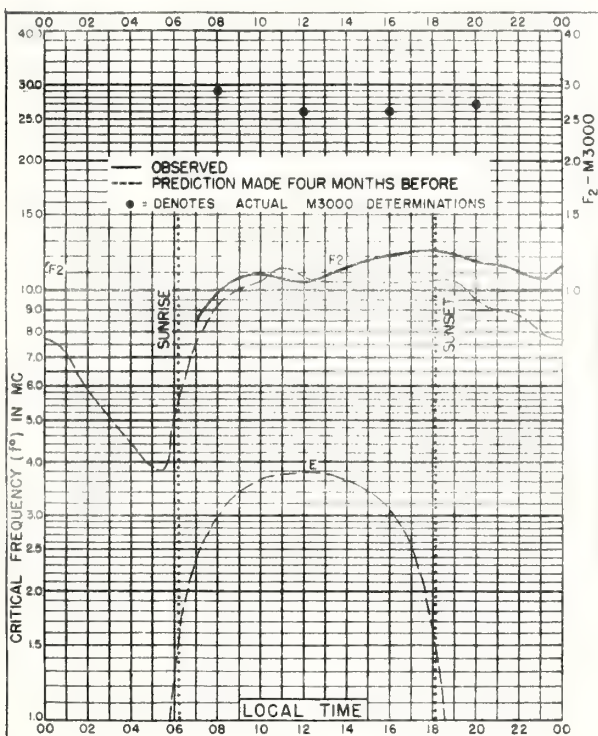
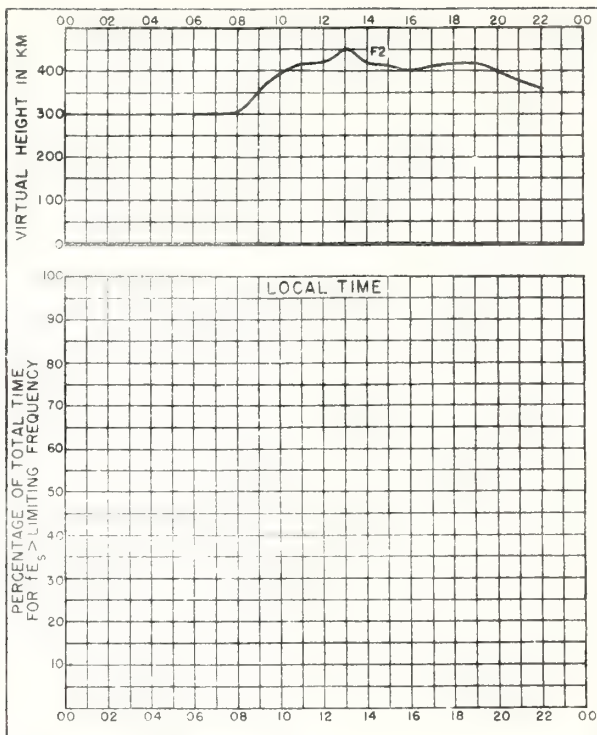
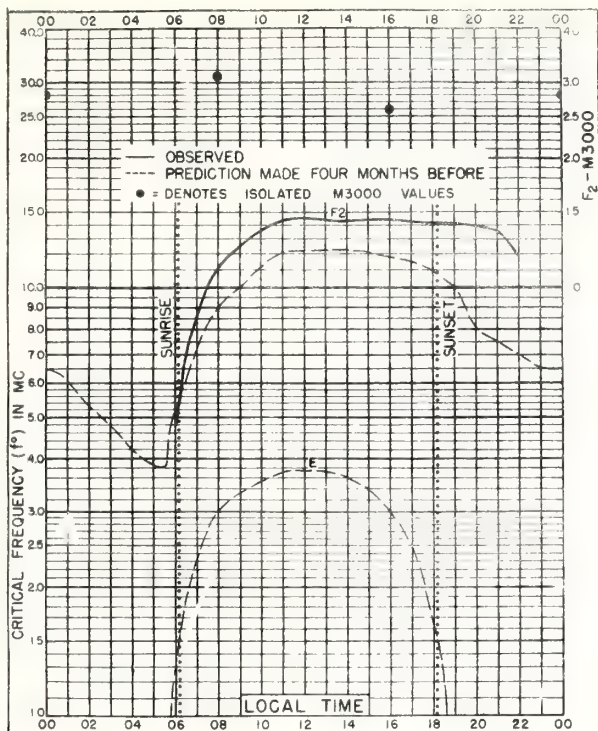
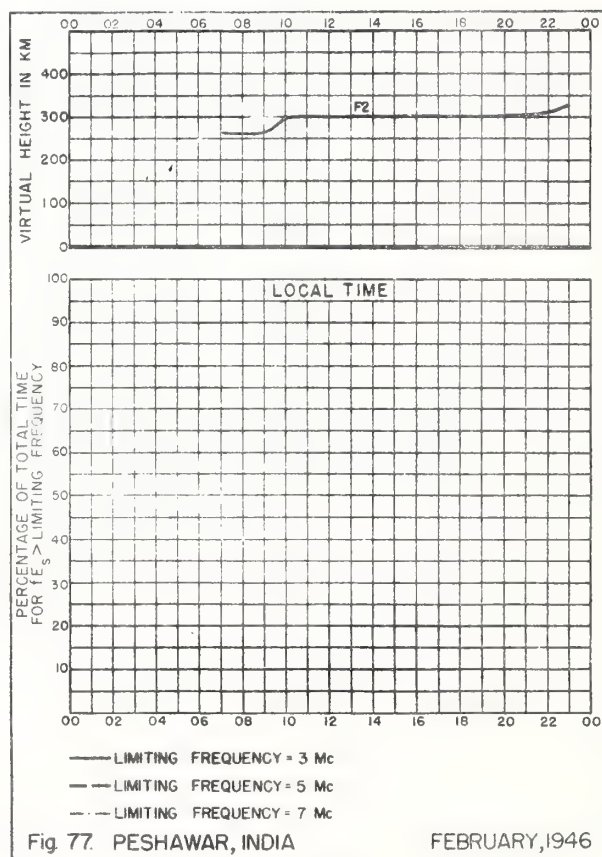
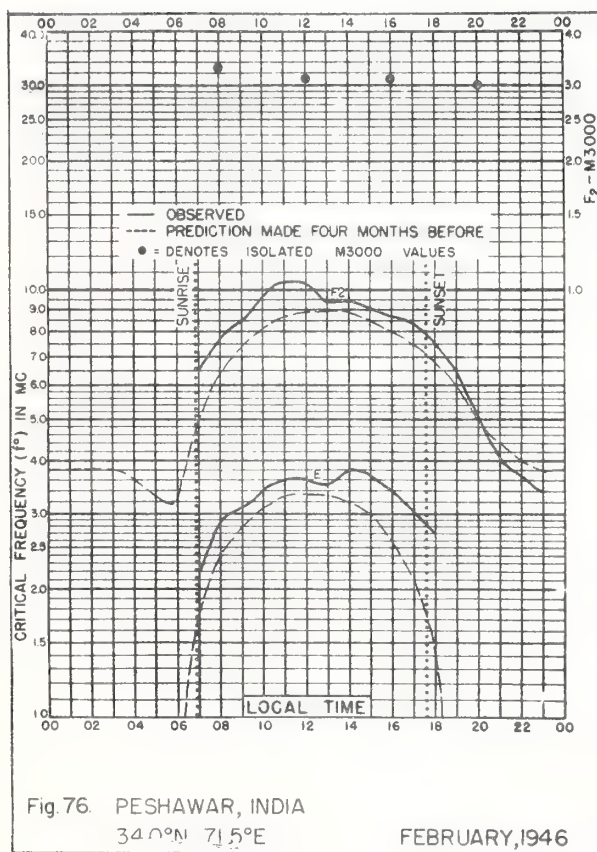
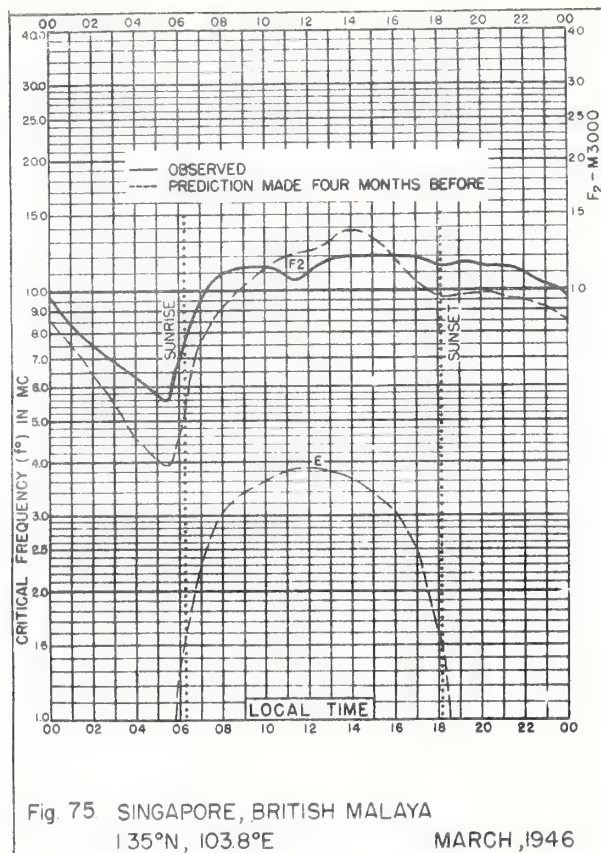


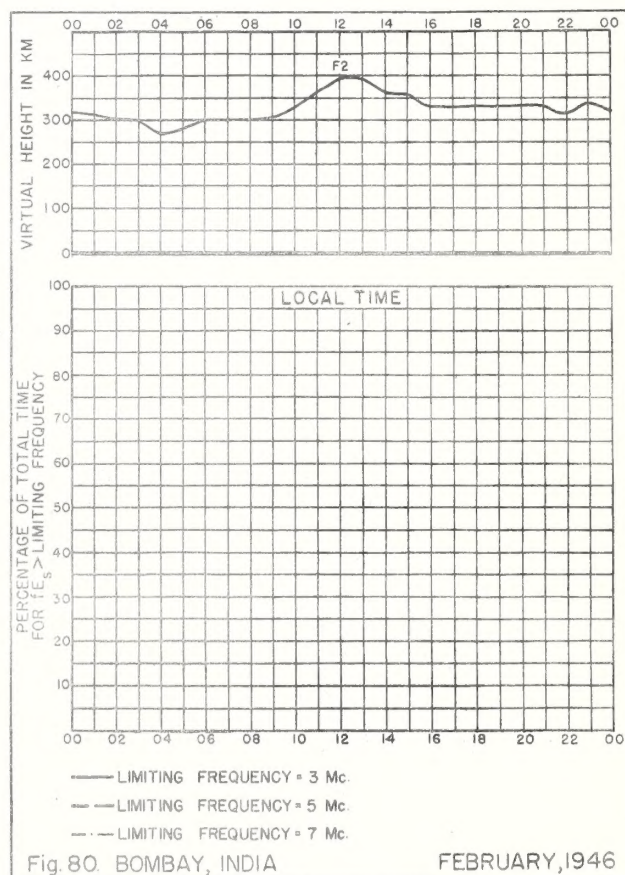
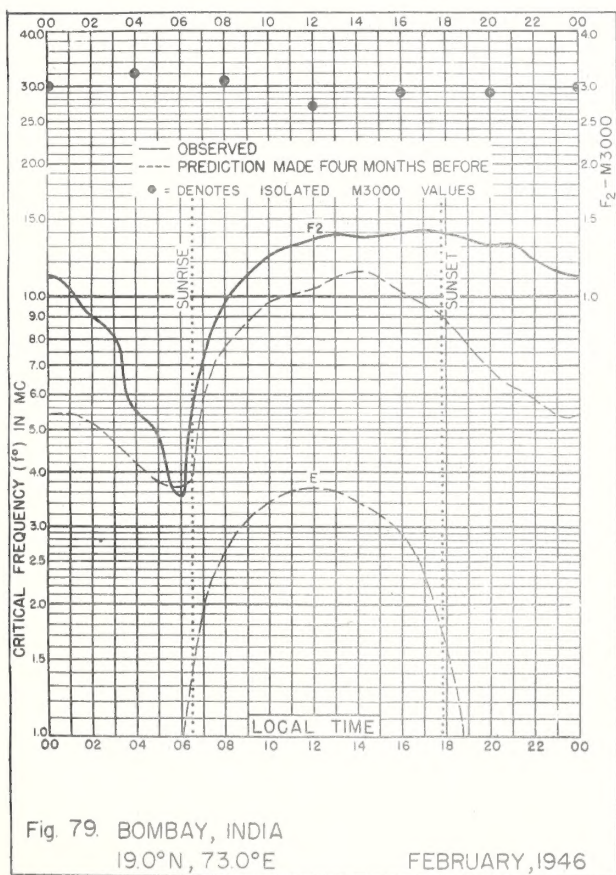
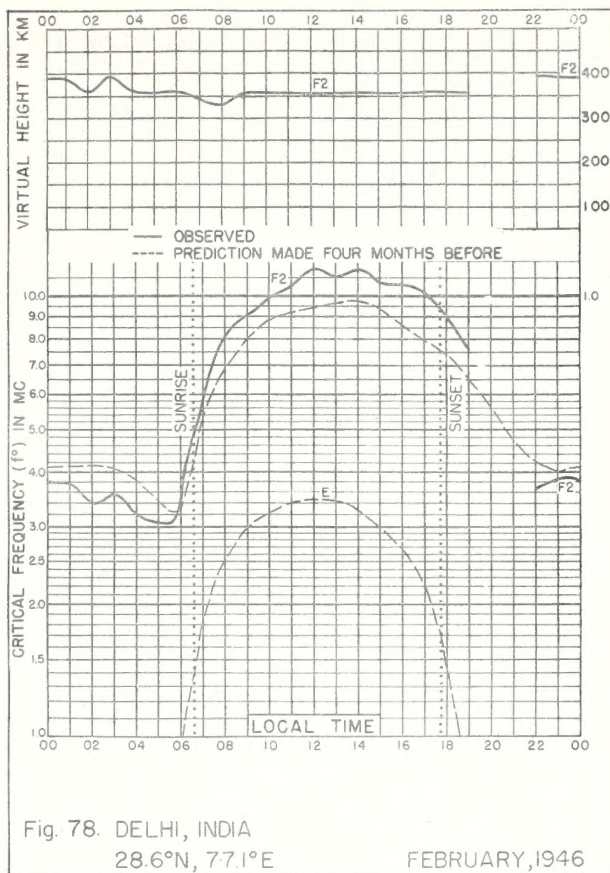
Fig. 66 FALKLAND IS.

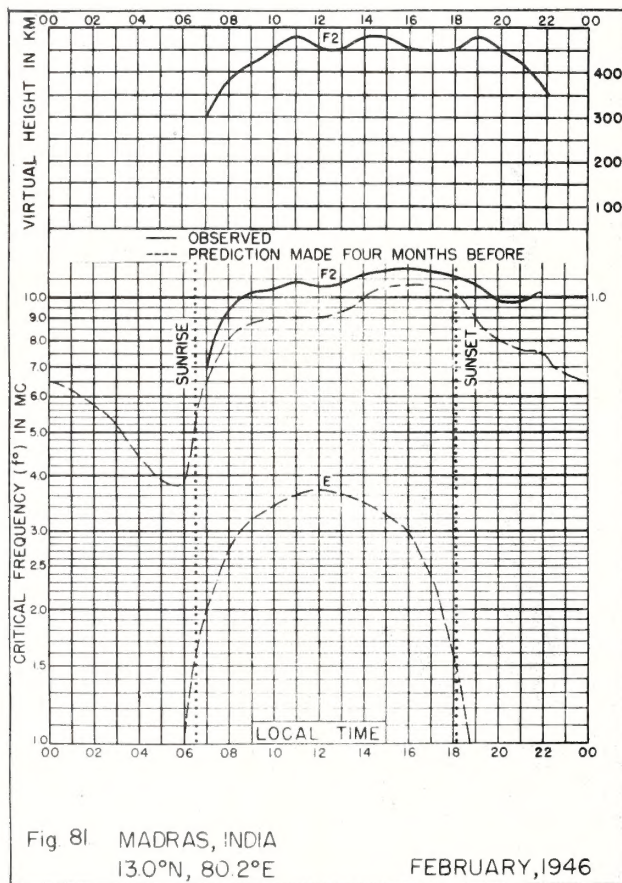
APRIL, 1946











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